

Mathematical Reviews

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Annual Index — 1988

Subject Index 00 — 58

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American Mathematical Society

Providence, Rhode Island USA

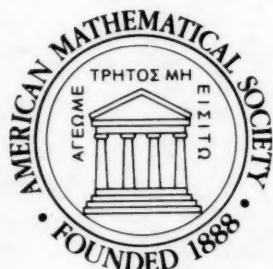
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- Vekua Institute of Applied Mathematics ★ Доклады расширенных заседаний семинара института прикладной математики им. И. Н. Веква. Том 2, вып. 1. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 2, no. 1] 88b:00016a
- ★ Доклады расширенных заседаний семинара института прикладной математики им. И. Н. Веква. Том 2, вып. 2. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 2, no. 2] 88b:00016b
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- Toronto, Ont.** ★ Oscillation, bifurcation and chaos. 88h:00006
- Transactions:**
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- Varna ★ Complex analysis and applications '85. 88h:00002
- Wave motion: theory, modelling, and computation ★ Wave motion: theory, modelling, and computation. 88g:00027
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- (Davies, D. G. S.) See Modelling under uncertainty. 88f:00030
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- Differential equations and their applications ★ Equadiff 6. 88c:34004b
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- Ibn Sīnā, Abū 'Alī al-Ḥusayn ibn 'Abdallāh See Asimov, Muhamed, 88m:01010

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- History of logic ★ Essays on philosophy and logic. 88j:03002
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- Huang, Wan Hui Another decision method for the validity of propositional inferences. (Chinese. English summary) 88a:03016
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- Aharon, Ron (with Linial, Nathan) Minimal non-two-colorable hypergraphs and minimal unsatisfiable formulas. 88b:05059
 Arvind, V. (with Biswas, Somenath) On certain bandwidth restricted versions of the satisfiability problem of propositional CNF formulas. (See 88k:68004)
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 Biswas, Somenath See Arvind, V., 88e:68047 and (88k:68004)
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 Franco, John (with Plotkin, J. M.; Rosenthal, John W.) Correction to: "Probabilistic analysis of the Davis-Putnam procedure for solving the satisfiability problem" [Discrete Appl. Math. 5 (1983), no. 1, 77-87; MR 84e:68038] by Franco and M. C. Paul. 88e:68050
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 Huang, Wen Qi (with Lai, Chu Sheng; Chen, Zhi Xiang) The hardness of the grid problem G_i under the routine resolution method. 88f:03011
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 Sagiv, Y. (with Delobel, C.; Parker, D. S., Jr.; Fagin, Ronald) Correction to: "An equivalence between relational database dependencies and a fragment of propositional logic" [J. Assoc. Comput. Mach. 28 (1981), no. 3, 435-453; MR 82h:68025]. 88i:68019
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 Zarnacka-Bialy, Ewa Peirce's icons as compared with Fregean propositional calculus. 88d:03002

03B10 Pure first-order logic (including many-sorted logic)

- Balsters, H. Comments on: "A deficiency of natural deduction" [Inform. Process. Lett. 25 (1987), no. 4, 233-234; MR 88i:03020a] by J. G. Wiltink. 88i:03020b
 Bressan, Aldo On general operators binding variables in an extensional first order theory. (Italian summary) 88m:03014
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 Daniels, Charles B. A first-order logic with no logical constants. 88g:03014
 Deutsch, Michael Eine Bemerkung zum Reduktionstyp $V^2 \exists^\infty(0, 1)$. [A remark on the reduction type $V^2 \exists^\infty(0, 1)$] 88g:03015
 Diener, Karl-Heinz Einfache Beweise für die eindeutige Zerlegbarkeit von Ausdrücken endlicher und unendlicher Sprachen. [Simple proofs for unique decomposability of expressions of finite and infinitary languages] 88g:03016
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 Sayward, Charles See Hugly, Philip, 88b:03008
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- Abar, Celina A. P. (with Yamashita, Mineko) Remarks on variable binding term operators. 88i:03039
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- de Alcantara, L. P. See de Costa, N. C. A., 88f:03007
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- Andrews, Peter B. ★ An introduction to mathematical logic and type theory: to truth through proof. 88g:03001
 van Benthem, Johan ★ Modal logic and classical logic. 88k:03029
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 Conceptualism, ramified logic, and nominalized predicates. 88e:03003

- Coquand, Thierry (with Huet, Gérard) Concepts mathématiques et informatiques formalisés dans le calcul des constructions. [Mathematical and informational concepts formalized in the calculus of constructions] 88j:68149
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- (Frege, Gottlob) See Schroeder-Heister, Peter, 88g:03005 and Moore, A. W., 88g:03006
- Hafer, Thilo (with Thomas, Wolfgang) Computation tree logic CTL* and path quantifiers in the monadic theory of the binary tree. 88k:03031
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- Paulson, Lawrence C. Constructing recursion operators in intuitionistic type theory. 88b:68176
- Previale, Flavio Observations on Takeuti's conjecture. (Italian) 88k:03118
- Rein, Andrew See Moore, A. W., 88g:03006
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- Scott, P. J. See Lambek, J., 88a:03032
- Shapiro, Stewart Principles of reflection and second-order logic. 88i:03066
- Smirnov, Vladimir Aleksandrovich A correction to: "Embedding the elementary ontology of Stanislaw Leśniewski into the monadic second-order calculus of predicates" [Studia Logica 42 (1983), no. 2-3, 197-207; MR 85m:03019]. 88a:03066
- Takahashi, Masako See Yamasaki, Hideki; et al., 88a:03092
- Thomas, Wolfgang See Hafer, Thilo, 88k:03031
- Valentini, Silvio Applications of the intuitionistic theory of types in theoretical computer science. (Italian) (See 88c:03002)
- Wagner, Steven J. The rationalist conception of logic. 88a:03015
- Yamasaki, Hideki (with Takahashi, Masako; Kobayashi, Kojiro) Characterization of ω -regular languages by monadic second-order formulas. 88a:03092

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- Dishkant, G. P. About finite predicate logic. 88c:03010
- Dragalin, A. G. A completeness theorem for intuitionistic predicate logic. An intuitionistic proof. 88h:03010
- Fang, Joong A topologization of syllogistic logic. 88b:03012
- Grieder, Alfons Syllogistics and some of its extensions in the context of relational logic. 88f:03008
- Kelly, David Complete rules of inference for universal sentences. 88h:03011
- Kennedy, Ralph Lemmon on logical relations. 88b:03013
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- (Lemmon, E. J.) See Kennedy, Ralph, 88b:03013
- Loparić, Andrija A semantical study of some propositional calculi. 88a:03021
- López-Escobar, Edgar G. K. On intuitionistic sentential connectives. I. 88c:03012
- Minari, Pierluigi Quasilinear posets and some subsystems of Dummett's LC. 88k:03020
- Muravitskii, A. Ya. Algebraic proof of the separation property for the proof-intuitionistic calculus. 88f:03009
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- Craig's interpolation theorem for the intuitionistic logic and its extensions—a semantical approach. 88d:03010
- Porębska, Małgorzata Interpolation and amalgamation properties in varieties of equational algebras. 88a:03023
- Schwartz, Daniel G. Semantic completeness of free-variable theories. 88i:03022
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- Coquand, Thierry (with Huet, Gérard) Concepts mathématiques et informatiques formalisés dans le calcul des constructions. [Mathematical and informational concepts formalized in the calculus of constructions] 88j:68149
- van Dalen, D. Glueing of analysis models in an intuitionistic setting. 88h:03081
- Došen, Kosta Modal translation and intuitionistic double negation. 88c:03022
- Higher-level sequent-systems for intuitionistic modal logic. 88c:03023
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- Flannery, Kevin L. A rationale for Aristotle's notion of perfect syllogisms. 88m:03004
- Furs, S. N. Syllogistics of some theories. 88h:03086
- Girard, Jean-Yves Linear logic and parallelism. (See 88f:68009)
- (with Lafont, Y.) Linear logic and lazy computation. 88h:68010
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- Huet, Gérard See Coquand, Thierry, 88j:68149
- Kuznetsov, Aleksandr Vladimirovich Algorithms, algebras and intuitionistic logic. (Russian) 88i:03008
- Lafont, Y. See Girard, Jean-Yves, 88h:68010
- (Leibniz, Gottfried Wilhelm) See Herget, Don Emil, 88i:03006
- Mints, G. (with Tyugu, E.) Semantics of a declarative language. 88c:68079a
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- Rybakov, V. V. Equations in a free topo-Boolean algebra and the substitution problem. (Russian) 88i:03024
- Smith, Carl H. (with Velauthapillai, Mahendran) On the inference of programs approximately computing the desired function. (See 88f:68002)
- Tyugu, E. See Mints, G., 88c:68079a and 88c:68079b
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- (with Ferro, Alfredo; Omodeo, E. G.; Schwartz, J. T.) Decision algorithms for some fragments of analysis and related areas. 88b:03014
- (with Ferro, Alfredo; Sorace, Giuseppe; Micale, Biagio) Decision procedures for elementary sublanguages of set theory. IV. Formulae involving a rank operator or one occurrence of $\Sigma(x) = \{ \{y\} \mid y \in x \}$. 88g:03019a
- (with Ferro, Alfredo; Schwartz, J. T.) Decision procedures for elementary sublanguages of set theory. V. Multilevel syllogistic extended by the general union operator. 88g:03019b
- Dulstova, Z. A. On the theory of Boolean algebras with a locally finite group of automorphisms. (Russian) 88m:03018
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- Martinez, Juan Carlos Decision procedure for a class of $(L_{\omega_1\omega})_1$ -types of T_3 spaces. 88h:03012
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- Ryšínková, Jana Church-Rosser property and decidability of monadic theories of unary algebras. (French summary) 88k:03021
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- Semenov, A. L. Decision procedures for logical theories. (Russian) 88c:03014
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- Aalbersberg, Ljbrand Jan (with Hoogetboom, H. J.) Decision problems for regular trace languages. 88k:68043
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- Boalos, George (with McGee, Vann) The degree of the set of sentences of predicate provability logic that are true under every interpretation. 88d:03022
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- Corsi, Giovanna Semantic trees for Dummett's logic LC. 88d:03051
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- Gilbons, Alan (with Rytter, Wojciech) On the decidability of some problems about rational subsets of free partially commutative monoids. 88j:68083
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- Gurari, Elitan M. Decidable problems for powerful programs. 88c:68026
- Halpern, Joseph Y. (with Rabin, Michael O.) A logic to reason about likelihood. 88c:03026
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- Weese, Martin. The theory of Boolean algebras with Q_0 and quantification over ideals. 88a:03088

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- de Asua, Miguel J. C. (with Klimovsky, G.) A proposal for an axiomatization of the theory of cells. (Spanish) (Not in MR)
- Balzer, Wolfgang. (with Moulines, C.-Ulises; Sneed, Joseph D.) The structure of empirical science: local and global. 88b:03015
- (with Zoubek, G.) On electrons and reference. (Not in MR)
- Bernardi, Claudio. (with Pagli, Paolo) Natural models, axiomatization, incompleteness. (Italian) 88m:03020
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- Butterfield, J. Relationism and possible worlds. (Not in MR)
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- (van Fraassen, Bas C.) See Kitcher, Philip, (Not in MR)
- Gadenne, Volker. Theoretische Begriffe und die Prüfbarkeit von Theorien. (English summary) [Theoretical concepts and the testability of theories] (Not in MR)
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- Burgin, M. S. (with Kuznetsov, V. I.) Systems analysis of a scientific theory on the basis of enumerated set theory. (Russian) 88c:03002
- Campbell, Richmond. (with Vinci, Thomas) Novel confirmation. (Not in MR)
- Chela, Raimundo. ★ *Matemática y lógica*. (Spanish) [Mathematics and logic] 88k:03002
- Chernyak, V. S. ★ *История. Логика. Наука*. (Russian) [History. Logic. Science] 88b:01003
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- Buss, Samuel R. A conservation result concerning bounded theories and the collection axiom. **88g:03081**
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- Ono, Hirokazu (with Kadota, Noriya) Provably recursive functions in fragments of Peano arithmetic. **88a:03146**
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- Paris, Jeff B. (with Wilkie, Alex J.) Counting Δ_0 sets. **88d:03111**
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- Pickert, Günter Die logischen Beziehungen zwischen drei Formen der vollständigen Induktion. [Logical relationships among three forms of complete induction] (Not in MR)
- Richard, Denis Définissabilité de l'arithmétique par coprimarité et restrictions de l'addition ou de la multiplication. (English summary) [Arithmetical definability from coprimeness and restrictions of addition or multiplication] **88j:03039**
- Schmerl, Ulf R. Critères d'indépendance d'équations diophantiennes de fragments de l'arithmétique. [Independence criteria for Diophantine equations relative to fragments of arithmetic] **88j:03040**
- Schütte, Kurt (with Simpson, Stephen G.) Ein in der reinen Zahlentheorie unbeweisbarer Satz über endliche Folgen von natürlichen Zahlen. [A theorem on finite sequences of natural numbers that is unprovable in pure number theory] **88a:03147**
- Schwartz, Daniel G. A free-variable theory of primitive recursive arithmetic. **88g:03083**
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- Schwichtenberg, H. Ein einfaches Verfahren zur Normalisierung unendlicher Herleitungen. [A simple procedure for normalizing infinite derivations] **88j:03041**
- Sheard, Michael See Friedman, Harvey M., **88d:03110**
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- Simpson, Stephen G. Unprovable theorems and fast-growing functions. **88g:03084**
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- Tomás, Francisco See Arenas, Gustavo, **88i:03119**
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- Adamowicz, Zofia Some results on open and Diophantine induction. **88b:03106**
- Aoyama, Kiwamu On definability of relations in standard models of fragments of first order arithmetic. **88g:03048**
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- Fernández-Prida, José A direct proof of Gödel's incompleteness theorems. **88b:03061**
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- Nešetřil, Jaroslav (with Thomas, Robin) Well quasi-orderings, long games and a combinatorial study of undecidability. **88i:03090**
- Reinhardt, W. N. Epistemic theories and the interpretation of Gödel's incompleteness theorems. **88d:03032**

- Ressayre, Jean-Pierre (with Wilkie, Alex J.) \star Modèles non standard en arithmétique et théorie des ensembles. (French) [Nonstandard models in arithmetic and set theory] **88j:03050**
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- Buchholz, Wilfried An independence result for $(\Pi_1^1\text{-CA}) + \text{BI}$. **88a:03148**
- Cantini, Andrea On weak theories of sets and classes which are based on strict Π_1^1 -reflection. **88b:03090**
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- Andrews, Peter B. \star An introduction to mathematical logic and type theory: to truth through proof. **88g:03001**
- Buchholz, Wilfried (with Schütte, Kurt) Ein Ordinalzahlensystem für die beweistheoretische Abgrenzung der Π_1^1 -Separation und Bar-Induktion. [A system of ordinal notations for the proof-theoretical analysis of Π_1^1 -separation and bar induction] **88g:03077**
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- Krajčák, Jan A note on proofs of falsehood. **88j:03038**

- Kuznetsov, Aleksandr Vladimirovich (with Muravitskii, A. Yu.) On superintuitionistic logics as fragments of proof logic extensions. 88d:03052
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- Bunder, M. W. Possible forms of evaluation or reduction in Martin-Löf type theory. 88a:03150
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- van Dalen, D. Glueing of analysis models in an intuitionistic setting. 88h:03081
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- Freyd, Peter Choice and well-ordering. 88g:03093
- (with Friedman, Harvey M.; Scedrov, Andre) Lindenbaum algebras of intuitionistic theories and free categories. 88g:03094
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- Lafont, Y. See Girard, Jean-Yves, 88h:68010
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- (with Tennant, Neil) Skolem's paradox and constructivism. 88c:03003
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- Valentini, Silvio Applications of the intuitionistic theory of types in theoretical computer science. (Italian) (See 88e:03002)

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- Balger, Günter Die Nichtkonstruktivität des Brouwerschen Fixpunktsatzes. [The nonconstructiveness of Brouwer's fixed point theorem] 88h:03082
- Ko, Ker-I On the continued fraction representation of computable real numbers. 88j:03042a

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- Müller, N. Th. Subpolynomial complexity classes of real functions and real numbers. 88a:68040
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03F65 Other constructive mathematics [See also 46R05.]

- Bridges, Douglas (with Richman, Fred) ★ Varieties of constructive mathematics. 88k:03127
- Kreitz, Christoph (with Weihrauch, Klaus) Compactness in constructive analysis revisited. 88i:03099
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- Romano, Daniel A. Construction of compatible relations on the Cartesian product of sets. (Serbo-Croatian summary) 88k:03128
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- Belaga, Edward G. Constructive universal algebra: an introduction. (French. English summary) 88k:03099
- Chernov, V. P. Enumerability of the class of dialogue spaces of trivial type. (Russian) 88a:03151
- Gauthier, Yvon The logical analysis of mathematical physics: remarks on renormalization procedures in quantum field theories. (Greek summary) 88b:81017
- Lovász, L. Algorithmic aspects of some notions in classical mathematics. 88d:68040
- Lüneburg, Heinz ★ On the rational normal form of endomorphisms. 88j:68075
- Macintyre, Angus Effective determination of the zeros of p -adic exponential functions. 88f:12014
- Nordström, Bengt Martin-Löf's type theory as a programming logic. (See 88e:03002)
- Ruitenburg, Wim Constructions of finitely generated submodules of constructively Noetherian modules. 88g:13016
- Turchin, Valentin F. A constructive interpretation of the full set theory. 88f:03006
- Weihrauch, Klaus ★ Computability. 88i:03068
- Wu, Wen Jun A constructive theory of algebraic topology. I. Notions of measure and calculability. (Chinese summary) 88b:55014
- A constructive theory of differential algebraic geometry based on works of J. F. Ritt with particular applications to mechanical theorem-proving of differential geometries. 88g:03023

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- Shevchenko, N. P. On the realizability of formulas of first-order predicate calculus and of the simple theory of types. (Russian) 88g:03089

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- Baz, Matthias Kripke-type semantics for da Costa's paraconsistent logic C_{ω} . 88a:03064
- Buszkowski, W. (with Orłowska, Ewa) On the logic of database dependencies. (Russian summary) 88f:68021
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03Gxx Algebraic logic

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- Monk, J. Donald The contributions of Alfred Tarski to algebraic logic. 88g:03004
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03G05 Boolean algebras [See also 06Exx.]

- Denenberg, Larry (with Gurevich, Yuri; Shelah, Saharon) Definability by constant-depth polynomial-size circuits. 88b:03094
- Gu, An Na On formula reduction of Boolean polynomials. (Chinese) (Not in MR)
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- Just, Winfried (with Mijajlović, Ž.) Separation properties of ideals over ω . 88g:03090
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03H05 Infinitesimal analysis in pure mathematics

[See also 26E35, 28E05, 30G10, 46Q05, 54J05.]

- Beshenkov, S. A. Formal contradiction as a positive principle of nonstandard arithmetic. (Russian) **88k:03134**
- Forti, M. On the order-structure of the real numbers in nonstandard models of the analysis. (See **88c:03002**)
- Hatcher, W. S. Caractérisations algébriques des hyperréels \mathbb{R}^* et des hyperentiers \mathbb{N}^* . (English summary) [Algebraic characterizations of the hyperreal numbers \mathbb{R}^* and the hyperintegers \mathbb{N}^*] **88i:03106**
- Jha, B. N. See Jha, Nivas, **88j:03047**
- Jha, Nivas (with Jha, B. N.) Nonstandard topological algebra. **88j:03047**
- Kinoshita, Moto-o An elementary variant of nonstandard set theory. **88k:03135**
- Ll, Bang He On the moiré problem from distributional point of view. (Chinese summary) **88i:03107**
- Lyantse, V. E. Nonstandard analysis. (Russian) **88a:03165**

- Mantilla, Ignacio (with Takeuchi, Yu) Seminar on nonstandard analysis. I. Microtopology of \mathbb{R}^* . (Spanish) **88k:03136**
- Riečan, Beloslav On an alternative axiom system for nonstandard calculus. (Russian and Slovak summaries) **88k:03137**
- Schmidt, Jürg (with Schmidt, Jürgen) Enlargements without urelements. **88j:03048**
- Schmidt, Jürgen See Schmidt, Jürg, **88j:03048**
- Takeuchi, Yu Topological structures in \mathbb{R}^* . (Spanish) **88k:03138**
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- Tortorelli, Vincenzo Maria Γ -limits and nonstandard analysis. (Italian) (See **88c:03002**)
- Uspenskii, V. A. On nonstandard analysis. **88f:03060**
- Vakil, Nader Monadic binary relations and the monad systems at near-standard points. **88j:03049**
- Wong, Ngai Ying A topology on \mathbb{R}^* . **88b:03105**
- Yasumoto, M. Nonstandard arithmetic of polynomial rings. **88c:03092**
- Zivaljević, Boško The zero-one law for products of internal κ -finitely additive probability spaces. **88a:03166**

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- Albeverio, Sergio (with Hoegh-Krohn, Raphael; Fenstad, Jens Erik; Lindström, Tom) ★ Nonstandard methods in stochastic analysis and mathematical physics. **88f:03061**
 Nonstandard analysis: applications to probability theory and mathematical physics. **88d:03119**
- Ailing, Norman L. ★ Foundations of analysis over surreal number fields. **88m:26027**
- Arens, Bernhard Die Non-standard Analysis: Eine Rehabilitierung des Unendlichkleinen in den Grundlagen der Mathematik. (English summary) [Nonstandard analysis: a rehabilitation of the infinitesimal in the foundations of mathematics] **88f:01026**
- Bertossi, L. E. Standard capacities with nonstandard pavings. **88c:26023**
- Blanco, Lilianna (with Rutz, Carlos) Extension of the "star" construction. (Spanish) **88j:03017**
- Brunet, Bernard Intégration nonstandard. [Nonstandard integration] **88k:26025**
- Bulgakov, D. N. A nonstandard approach to a problem of the imbedding of a topological loop in an associated group. (Russian) **88j:22004**
- Coleman, E. Banach space ultraproducts. **88j:46013**
- Čuda, K. A nonstandard treatment with quantities. **88b:03079**
- Cutland, N. J. (with Kendall, Wilfrid S.) A nonstandard proof of one of David Williams' splitting-time theorems. **88d:60186**
 Infinitesimals in action. **88d:26045**
- DeVito, Carl L. Applications of nonstandard theory of locally convex spaces. **88g:46005**
- Feng, Han Qiao (with Saint Mary, Donald F.; Wattenberg, Frank) Applications of nonstandard analysis to partial differential equations. I. The diffusion equation. **88d:35020**
- Fenstad, Jens Erik See Albeverio, Sergio; et al., **88f:03061**
- Gómez Pin, Victor The ontology and history of calculus (the work of Abraham Robinson). (Spanish. English summary) **88d:01016**
- Gopala Krishna, J. Some order based and probabilistic approximations. **88m:41001**
- Hoegh-Krohn, Raphael See Albeverio, Sergio; et al., **88f:03061**
- Horváth, M. On the attempts made by Leibniz to justify his calculus. (German summary) **88d:01012**
- Isambert, Emmanuel Les fleuves, notion non standard d'attracteur ou histoire inachevée d'une définition. [Rivers: a nonstandard notion of attractor, or the unfinished history of a definition] **88m:58104**
- Kalina, Martin On the construction of an invariant volume. (Russian and Slovak summaries) **88c:28015**
 (Kanovei, V. G.) See Uspenskii, V. A., **88m:26028**
- Keisler, H. Jerome Measures and forking. **88i:03052**
- Kendall, Wilfrid S. See Cutland, N. J., **88d:60186**
- Kessler, Christoph Nonstandard conditions for the global Markov property for lattice fields. **88b:82010**
- Komkov, Vadim Perturbations near zero of the leading coefficient of solutions to a nonlinear differential equation. **88f:34051**
 (Leibniz, Gottfried Wilhelm) See Horváth, M., **88d:01012**
- Lewis, Alain A. On the construction of subinvariant weakly additive set-functions. **88g:28012**
- Ll, Ya Qing Products of $\delta^{(m)}(x)$ with $x^{\frac{1}{2}} \ln^k x$. (Chinese. English summary) **88b:46066**
- Lindström, Tom See Albeverio, Sergio; et al., **88f:03061**
- Lovregio, Yu. N. A generalization of nonstandard analysis. (Russian) **88b:03049**
- Luxemburg, W. A. J. Concurrent binary relations and embedding theorems for partially ordered linear spaces. **88g:46012**
- Mantilla, Ignacio See Takeuchi, Yu, **88k:03136**
- Masterson, John J. Nonstandard techniques in real analysis. **88h:26014**
- Medvedev, F. A. Nonstandard analysis and the history of classical analysis. (Russian) **88m:01058**
- Mijačević, Ž. On ε -bounded ultraproducts. **88b:03046**
- Musić-Kovačević, Vesna Conditional probability in nonstandard analysis. **88d:60015**
- Nakano, Yoshihiro See Suemura, Yasuo, **88k:54018**
- Nelson, Edward ★ Radically elementary probability theory. **88k:60001**
- Nishimura, Takeshi Fuzzy monad theory and fuzzy topology. **88c:54008**
- Oikkonen, Juha Nonstandard Brownian motion in the plane. **88j:60137**
 The C^2 image of a Brownian motion in the plane. **88j:60136**
- Pardo, Leandro Rényi's α -order entropy in the context of nonstandard analysis. (Spanish. English summary) (Not in MR)
- (Robinson, Abraham) See Gómez Pin, Victor, **88d:01016**
- Rutz, Carlos See Blanco, Lilianna, **88j:03017**
- Saint Mary, Donald F. See Feng, Han Qiao; et al., **88d:35020**
- Sarvohaman, K. Nonstandard proofs of Tauber's theorems. **88a:40004**
- Suemura, Yasuo (with Nakano, Yoshihiro) The representation of the product by the monad. **88k:54018**
- Takeuchi, Yu (with Mantilla, Ignacio) The Riemann integral for nonstandard functions. (Spanish) **88k:26026**
 Poisson transforms of nonstandard functions. (Spanish) **88c:44004**

- Uspenskii, V. A. ★ Что такое нестандартный анализ? (Russian) [What is nonstandard analysis?] 88m:26028
- Wallet, Guy Entrée-sortie dans un tourbillon. (English summary) [Entering-leaving in a curl] 88h:34032
- Wattenberg, Frank See Feng, Han Qiao; et al., 88d:35020

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- Annals of Mathematics Studies See Nelson, Edward, 88k:60001
- Clermont-Ferrand ★ Séminaire d'analyse 1985-1986. (French) [Analysis seminar 1985-1986] 88g:00016
- Seminar:
Analysis 1985-1986 ★ Séminaire d'analyse 1985-1986. (French) [Analysis seminar 1985-1986] 88g:00016

03H10 Other applications of infinitesimal analysis

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- Nonstandard analysis: applications to probability theory and mathematical physics. 88d:03119
- An introduction to nonstandard analysis and applications to quantum theory. 88k:03139
- Fenstad, Jens Erik See Albeverio, Sergio; et al., 88f:03061
- Hoegh-Krohn, Raphael See Albeverio, Sergio; et al., 88f:03061
- Lindström, Tom See Albeverio, Sergio; et al., 88f:03061
- Reeb, Georges Étude expérimentale du moiré suggérée par l'analyse non standard. [An experimental study of moiré patterns suggested by nonstandard analysis] 88h:03088

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- Cairn, László Nonstandard logics of programs. 88j:68113
- Emmons, David W. (with Yannelis, Nicholas C.) On perfectly competitive economies: Loeb economies. 88e:90018
- Hurd, A. E. Global existence and validity for the BBGKY hierarchy. 88h:82009
- Lewński, Tomasz On the interrelation between microlocal parameter and homogenization approaches to the periodic elastic solids. (Russian summary) 88m:73008
- Li, Bang He On the moiré problem from distributional point of view. (Chinese summary) 88i:03107
- Lindström, Tom Nonstandard energy forms and diffusions on manifolds and fractals. 88i:58165
- Markus, Lawrence Global control dynamics—with reference to nonstandard analysis. 88f:93005
- Rashid, Salim Nonstandard analysis and infinite economies: the Cournot-Nash solution. 88e:90122
- Stoll, Andreas Self-repellent random walks and polymer measures in two dimensions. 88k:82101
- Stroyan, K. D. Previsible sets for hyperfinite filtrations. 88a:60069
- Wozniak, Czesław Nonstandard analysis in mechanics. (Russian summary) 88f:73009
- Nonstandard analysis and micromorphic effects in the multilayered bodies. (Russian summary) 88a:73067
- A nonstandard method of modelling of thermoelastic periodic composites. 88c:73076
- Yannelis, Nicholas C. See Emmons, David W., 88e:90018

03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05.]

- Adamowicz, Zofia Some results on open and Diophantine induction. 88b:03106
- Iglatović, Aleksandar Initial segments and isomorphic images of nonstandard models of arithmetic. (Serbo-Croatian summary) 88a:03167
- Unions and intersections of isomorphic images of nonstandard models of arithmetic. 88e:03093
- Kotlarski, Henryk Bounded induction and satisfaction classes. 88e:03094
- Ressayre, Jean-Pierre (with Wilkie, Alex J.) ★ Modèles non standard en arithmétique et théorie des ensembles. (French) [Nonstandard models in arithmetic and set theory] 88j:03050
- Schmerl, James H. Peano arithmetic and hyper-Ramsey logic. 88i:03108
- Smoryński, C. Nonstandard models and related developments. 88a:03168
- Wilkie, Alex J. See Ressayre, Jean-Pierre, 88j:03050

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- Adamowicz, Zofia Open induction and the true theory of rationals. 88i:03061
- (Book, Ronald V.) See Studies in complexity theory, 88f:68042
- Gold, Bonnie Relatively Diophantine correct models of arithmetic. 88i:03062
- McAloon, Kenneth Models of arithmetic and complexity theory. (See 88f:68042)
- McLaughlin, T. G. Some properties of $\forall\exists$ models in the isol. 88b:03067
- Mortensen, Chris Inconsistent nonstandard arithmetic. 88j:03014
- Simmons, Harold The embedding tree has many pairwise disjoint, initially perfect branches. 88d:03112
- Smith, Stuart T. Nonstandard characterizations of recursive saturation and resplendency. 88i:03057
- Tung, Shih-Ping On weak number theories. 88m:03088

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- Studies in complexity theory ★ Studies in complexity theory. 88f:68042

03H20 Other nonstandard models [See also 54J05.]

- Richter, M. M. (with Szabo, M. E.) Nonstandard computation theory. 88g:03095
- Szabo, M. E. See Richter, M. M., 88g:03095

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- Hájek, P. Some conservativeness results for nonstandard dynamic logic. 88m:03048
- Ressayre, Jean-Pierre (with Wilkie, Alex J.) ★ Modèles non standard en arithmétique et théorie des ensembles. (French) [Nonstandard models in arithmetic and set theory] 88j:03050
- Smoryński, C. Nonstandard models and related developments. 88a:03168
- Wilkie, Alex J. See Ressayre, Jean-Pierre, 88j:03050

03H99 None of the above, but in this section

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- Čuda, K. (with Tzouvaras, A.) Endomorphic cuts and tails. 88g:03069
- Sgall, J. Construction of the class FN. 88a:03125
- Tzouvaras, A. See Čuda, K., 88g:03069

04-XX Set theory

04-01 Elementary exposition; textbooks

- Henle, J. M. ★ An outline of set theory. 88d:04001
- Mendelson, Elliott ★ Number systems and the foundations of analysis. 88b:04001

04-02 Advanced exposition (research surveys, monographs, etc.)

- Holz, Michael (with Podewski, Klaus-Peter; Steffens, Karsten) ★ Injective choice functions. 88d:04002
- Podewski, Klaus-Peter See Holz, Michael; et al., 88d:04002
- Steffens, Karsten See Holz, Michael; et al., 88d:04002

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- Lecture Notes in Mathematics See Holz, Michael; et al., 88d:04002

04-03 Historical (must also be assigned at least one classification number from Section 01)

Items secondarily classified 04-03

- (Berg, Jan) See Bolzano, Bernard, 88h:01075
- Bolzano, Bernard ★ Bernard Bolzano—Gesamtausgabe. Reihe I. Schriften. Band 11. Teil 3. (German) [Bernard Bolzano—collected works. Series I. Writings. Vol. 11. Part 3] 88h:01075
- (Cantor, Georg) See Medvedev, F. A., 88d:01022; Purkert, W., 88f:01043; 88h:01027 and Singh, Dasharath, 88h:01029
- García delgado, Alejandro R. On rewriting the history of the foundations of mathematics at the turn of the century. 88a:01026
- (Hausdorff, F.) See Nakatogawa, Koji, 88m:01061
- Ilgauds, Hans-Joachim See Purkert, W., 88f:01043
- Kondo, Motokichi ★ Selected works of Motokichi Kondo. 88d:01044
- Medvedev, F. A. Cantorsche Mengenlehre und Theologie. [Cantor's set theory and theology] 88f:01022
- Cantor's comparison of infinite cardinals. (Russian. English summary) 88d:01022
- Murata, Tamotsu La naissance de la théorie des ensembles et son retentissement en France. [The origins of set theory and its impact in France] 88i:01052
- Nakatogawa, Koji Pantachies and weakly inaccessible cardinals. Hausdorff's way out from the conceptual scheme of classical real analysis. 88m:01061
- Purkert, W. (with Ilgauds, Hans-Joachim) ★ Georg Cantor. (German) 88f:01043
- Georg Cantor und die Antinomien der Mengenlehre. [Georg Cantor and the antinomies of set theory] 88h:01027
- Rautenberg, Wolfgang Über den Cantor-Bernsteinschen Äquivalenzsatz. [On the Cantor-Bernstein equivalence theorem] 88g:04004
- Singh, Dasharath On Cantor's concept of set. 88h:01029
- (Tanaka, Hisao) See Kondo, Motokichi, 88d:01044
- (Tugue, Toshiyuki) See Kondo, Motokichi, 88d:01044
- (Yasuda, Yutaka) See Kondo, Motokichi, 88d:01044

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- Biography:
Cantor, Georg See Purkert, W., 88f:01043
- Kondo, Motokichi See Kondo, Motokichi, 88d:01044

04A05 Relations, functions [See also 08A02.]

- Aslanski, M. S. See Chilver, Kiril N., 88h:04002
- Banković, Dragić A remark on formulas of reproductive solutions. (Serbo-Croatian summary) 88h:04001
- Burdyn, V. Ya. Expressive closures of binary relations. (Russian) 88j:04001

- Chimer, Kiril N. (with Aslanski, M. S.) On some classes of functions. (Bulgarian. English and Russian summaries) **88h:04002**
 (with Shtrakov, Slavcho V.) On the dominant sets and separable pairs of essential variables of functions. (Bulgarian. English and Russian summaries) **88h:04003**
 Creanga, Ion Relations between binary and ternary operations in a set. **88j:04002**
 Li, Gui Hua Transformation conservation of pansystems transitive relations, and the structural character of pansystems T -simulation. (Chinese. English summary) (Not in MR)
 Marek, Wiktor (with Rasiowa, Helena) Approximating sets with equivalence relations. **88e:04001**
 (with Rasiowa, Helena) Gradual approximating sets by means of equivalence relations. (Russian summary) **88j:04003**
 Muñoz Quevedo, José M. Using the back-and-forth method to obtain isomorphisms of dense and superdense ordered sets. (Spanish) **88j:04004**
 Nowinski, Ladomir (with Pawlikowski, Janusz; Serebryński, Witold) Infinite free set for small measure set mappings. **88d:04003**
 Novák, Vítězslav Universal cyclic relations. **88g:04001**
 Pawlak, Zdzisław On rough functions. (Russian summary) **88i:04001**
 Pawlikowski, Janusz See Nowinski, Ladomir; et al., **88d:04003**
 Rasiowa, Helena See Marek, Wiktor, **88e:04001** and **88j:04003**
 Serebryński, Witold See Nowinski, Ladomir; et al., **88d:04003**
 Shtrakov, Slavcho V. On the separable and annulling sets of variables for the functions. (Russian and Hungarian summaries) **88e:04002**
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- Bonan, Edmond Sur les sélections injectives du type fini. (English summary) [Injective selections of finite type] **88a:04001**
 Both, N. See Purdea, I., **88h:04043**
 Cates, Marshall See Killgrove, Raymond B.; et al., **88d:05033**
 Chimer, Kiril N. Separable sets of arguments of functions. **88d:03044**
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 Glakomakis, V. (with Monjardet, B.) Coefficients d'accord entre deux préordres totaux. Comparaison ordinale des coefficients. (English summary) [Coefficients of agreement between two monotone quasiorders. Ordinal comparison of the coefficients] **88m:92067**
 Gurevič, Reuben Transcendental numbers and eventual dominance of exponential functions. **88a:03024**
 Killgrove, Raymond B. (with Cates, Marshall; Sternfeld, Robert) Low order systems. **88d:05033**
 Komjáth, P. (with Milner, E. C.) On representing sets of an almost disjoint family of sets. **88b:04004**
 Kranner, Marc Abstract Galois theory and endotheory. I. **88m:08001**
 Le, Hui Ling See Zhang, Wen Xiu, **88k:03117**
 Levenkov, V. S. Algebraic representation of group choice. (Russian) **88m:90011**
 Li, Bo Yu See Milner, E. C.; et al., **88g:06005**
 Milner, E. C. (with Wang, Z. S.; Li, Bo Yu) Some inequalities for partial orders. **88g:06005**
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 Monjardet, B. See Glakomakis, V., **88m:92067**
 Nagata, Shuro (with Oshiba, Takeshi; Funahashi, Sakae) A method of computing Bell numbers. **88i:05016**
 Novotný, Miroslav (with Pawlak, Zdzisław) Concept forming and black boxes. (Russian summary) **88i:68091**
 Oshiba, Takeshi See Nagata, Shuro; et al., **88i:05016**
 Pawlak, Zdzisław See Novotný, Miroslav, **88i:68091**
 Purdea, I. (with Both, N.) Metrics and symmetric relations. **88h:54043**
 Rauzy, Claire Sur l'extensivité des tableaux bivalents à deux colonnes. (English summary) [On the extensivity of bivalent tableaux with two columns] **88d:05019**
 Romano, Daniel A. Construction of compatible relations on the Cartesian product of sets. (Serbo-Croatian summary) **88k:03128**
 Sen'shin, N. I. The reflection method in the analysis of the state of an external medium in interactive systems for the control of moving objects. (Russian) **88h:92072**
 Simenyan, R. G. Tolerance spaces induced by majorant spaces. (Russian. Armenian summary) **88h:08002**
 Sternfeld, Robert See Killgrove, Raymond B.; et al., **88d:05033**
 Torosyan, B. E. On estimates for the activities of the arguments of logical functions and for the number of linearly separable subsets. (Russian. Armenian summary) **88i:03101**
 Wang, Shu Ji Pansystems clusterings with the Menger property. (Chinese. English summary) **88h:05053**
 Wang, Z. S. See Milner, E. C.; et al., **88g:06005**
 Zhang, Wen Xiu (with Le, Hui Ling) The structure of the norm system on fuzzy sets. **88k:03117**
 Zhu, Xu Ding Structure analysis of pansystems semi-equivalence clustering. (Chinese. English summary) **88i:05021**

04A10 Transfinite numbers

- Aharoni, Ron (with Hajnal, P.) Transversals for ordinal intervals. **88d:04004**
 Gonsior, Harry ★ An introduction to the theory of surreal numbers. **88b:04002**
 Hajnal, P. See Aharoni, Ron, **88d:04004**
 Zuckerman, Martin M. Sums of finitely many ordinals of various kinds. **88c:04001**
 Sums of 5 or 6 pairwise-noncommutative ordinals. **88b:04003**

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- Ailing, Norman L. ★ Foundations of analysis over surreal number fields. **88m:26027**
 Pastijn, Francis A class of uniform chains. **88h:06001**

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 03E15, 28A05, 54H05.]

- Balcerzak, Marek The decomposition property of σ -ideals. (Serbo-Croatian summary) **88h:04004**
 Bartoszyński, Tomek Combinatorial aspects of measure and category. **88m:04001**
 Miller, Harry I. (with Xenikakis, Polychronis J.) Some results on the Cantor set. **88c:04002**
 Pelc, Andrzej Invariant ideals and Borel sets. **88f:04001**
 Plewik, Szymon On completely Ramsey sets. **88d:04005**
 Xenikakis, Polychronis J. See Miller, Harry I., **88c:04002**

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- Abian, Alexander Products of Cantor's discontinuum. **88b:26002**
 Becker, Howard Pointwise limits of subsequences and Σ_1^1 sets. **88k:54055**
 Cichoń, J. (with Pawlikowski, Janusz) On ideals of subsets of the plane and on Cohen reals. **88b:03072**
 van Engelen, Fons Characterizations of the countable infinite product of rationals and some related problems. **88f:54094**
 Fremlin, D. H. (with Jasiński, J.) G_δ -covers and large thin sets of reals. **88a:54088**
 Grzegorek, E. Always of the first category sets. II. **88j:54054**
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 Kaufman, Robert P. Perfect sets and sets of multiplicity. **88c:42019**
 Kondo, Motokichi ★ Selected works of Motokichi Kondo. **88d:01044**
 Pawlikowski, Janusz See Cichoń, J., **88b:03072**
 Shortt, R. M. Sets with no uncountable Blackwell subsets. **88k:28001**
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 Tugué, Toshiyuki See Kondo, Motokichi, **88d:01044**
 (Yasuda, Yutaka) See Kondo, Motokichi, **88d:01044**

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04A20 Combinatorial [See also 05A05.]; filters

- Blass, Andreas Ultrafilters related to Hindman's finite-unions theorem and its extensions. **88g:04002**
 Bonan, Edmond Sur les sélections injectives du type fini. (English summary) [Injective selections of finite type] **88a:04001**
 Di Prisco, Carlos A. (with Uzcategui, Carlos Enrique) Normal filters generated by a family of sets. **88j:04005**
 Erdős, Paul Some problems on finite and infinite graphs. **88g:04003**
 Gaodini, Pier Mario On the lattice of filters. (Italian. English summary) **88c:04003**
 Jovanović, Aleksandar Filters and measures. (Serbo-Croatian. English summary) **88f:04002**
 Komjáth, P. (with Milner, E. C.) On representing sets of an almost disjoint family of sets. **88b:04004**
 Matsubara, Yo Menas' conjecture and generic ultrapowers. **88m:04002**
 Milner, E. C. (with Priky, Karel) Almost disjoint sets. **88i:04001**
 See also Komjáth, P., **88b:04004**
 Pielonowicz, Adam On the shadows of ideals. **88m:04003**
 Priky, Karel See Milner, E. C., **88i:04001**
 Rautenberg, Wolfgang Über den Cantor-Bernsteinschen Äquivalenzsatz. [On the Cantor-Bernstein equivalence theorem] **88g:04004**
 Rubin, Matatyahu (with Shelah, Saharon) Combinatorial problems on trees: partitions, Δ -systems and large free subtrees. **88h:04005**
 Shelah, Saharon See Rubin, Matatyahu, **88h:04005**
 Todorcević, Stevo Partitioning pairs of countable ordinals. **88i:04002**
 Uzcategui, Carlos Enrique See Di Prisco, Carlos A., **88j:04005**

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- Baeten, J. C. M. ★ Filters and ultrafilters over definable subsets of admissible ordinals. **88j:03035**
 Balcar, B. (with Franěk, F.) Completion of factor algebras of ideals. **88g:06017**
 Bartol, W. (with Niwiński, D.; Rudak, L.) Partial algebra extensions. (Spanish) **88d:06005**
 Baumgartner, James E. Partition relations for countable topological spaces. **88a:05013**
 (with Hajnal, A.) A remark on partition relations for infinite ordinals with an application to finite combinatorics. **88e:03070**
 Bergelson, Vitaly Ergodic Ramsey theory. **88h:05003**
 Bollobás, Béla (with Thomason, Andrew) Threshold functions. **88g:05122**
 Carlson, Timothy J. An infinitary version of the Graham-Leeb-Rothschild theorem. **88b:05011**
 Franěk, F. See Balcar, B., **88g:06017**
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 Holz, Michael (with Podewski, Klaus-Peter; Steffens, Karsten) ★ Injective choice functions. **88d:04002**
 Kleitman, D. J. See Sha, Ji Chang, **88c:05016**
 Komjáth, P. (with Weiss, William A. R.) Partitioning topological spaces into countably many pieces. **88k:54003**
 Larson, Jean A. A GCH example of an ordinal graph with no infinite path. **88k:03108**
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04A25 Axiom of choice and related propositions (Zorn's lemma, etc.) [See also 03E25.]

- Brunner, Norbert Topologische Maximalprinzipien. [Topological maximal principles] 88c:04004
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04A30 Continuum hypothesis, generalized continuum hypothesis [See also 03E50, 54A25.]

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- Francini, Claudio The general theory of relative numbers and Heisenberg's principle. (Italian) (Not in MR)
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- Griera, Mercè (with Rifa, Josep; Huguet, Llorenç) On s -sum-sets and projective codes. 88h:94033
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- Huguet, Llorenç (with Rifa, Josep; Griera, Mercè) Pseudo-triple-sum-sets and association schemes. 88h:94034
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- Ma, Siu Lan Partial difference sets in dihedral group. 88i:20042
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- Biondi, Paola (with Melone, Nicola) On sets of Plücker class two in $PG(3, q)$. **88i:51008**
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- Tasković, Milan R. ★ Osnove teorije fiksne tačke. (Serbo-Croatian) [Foundations of fixed-point theory] **88f:54089**
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- Reuter, Klaus See Ganter, B.; et al. **88i:06002**
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- Blass, Andreas Prime ideals yield almost maximal ideals. 88d:03099
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- Chee, P. S. Errata: "Famous problems. II. Fermat's last theorem" [Menemui Mat. 6 (1984), no. 1, 1-26; MR 86b:11001]. 88c:11001
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Voros, A. The Hadamard factorization of the Selberg zeta function on a compact Riemann surface. **88f:11055**

Unauthored items

Lecture Notes in Mathematics See Fischer, Jürgen, **88f:11053**

Items secondarily classified 11F72

Agmon, Shmuel Spectral theory of Schrödinger operators on Euclidean and on non-Euclidean spaces. **88e:35113**

Baranov, A. M. (with Manin, Yu. I.; Frolov, I. V.; Shvarts, A. S.) A superanalogue of the Selberg trace formula and multiloop contributions for fermionic strings. **88j:81036**

- Bellinson, A. A. (with Manin, Yu. I.) Values of the Selberg zeta-function at integer points. (Russian) **88g:11031**
- Brooks, Robert Combinatorial problems in spectral geometry. **88d:58121**
(with Tse, Richard) Isospectral surfaces of small genus. **88m:58182**
- Deshouillers, Jean-Marc (with Iwaniec, H.) The nonvanishing of Rankin-Selberg zeta-functions at special points. **88d:11047**
- Flicker, Yuval Z. (with Kazhdan, David A.) Metaplectic correspondence. **88d:11049**
Relative trace formula and simple algebras. **88e:22026**
- Fried, David Fuchsian groups and Reidemeister torsion. **88e:58098**
- Frolov, I. V. See Baranov, A. M.; et al., **88j:81036**
- Guillemin, Victor (with Uribe, Alejandro) The trace formula for vector bundles. **88a:58198**
- Guseinov, G. Sh. The wave equation in an n -dimensional Lobachevskii space. (Russian) **88h:58115**
- Gutzwiller, Martin C. Physics and Selberg's trace formula. **88f:81046**
Mechanics on a surface of constant negative curvature. **88m:58054**
- Hashimoto, Ki-ichiro (with Ibukiyama, Tomoyoshi) On relations of dimensions of automorphic forms of $Sp(2, \mathbb{R})$ and its compact twist $Sp(2)$. II. **88d:11042**
- Ibukiyama, Tomoyoshi On relations of dimensions of automorphic forms of $Sp(2, \mathbb{R})$ and its compact twist $Sp(2)$. I. **88d:11041**
See also Hashimoto, Ki-ichiro, **88d:11042**
- Iwaniec, H. See Deshouillers, Jean-Marc, **88d:11047**
- Kazhdan, David A. See Flicker, Yuval Z., **88d:11049**
- Koseki, Harutaka On a comparison of trace formulas for $GU(1, 2)$ and $GU(3)$. **88e:22027**
- Kottwitz, Robert E. Stable trace formula: elliptic singular terms. **88g:22027**
- Lin, Ts'ung Yüan See Yu, Wen Ch'ing, **88a:11048**
- Lubotzky, Alexander (with Phillips, Ralph S.; Sarnak, P.) Hecke operators and distributing points on the sphere. I. **88m:11025a**
(with Phillips, Ralph S.; Sarnak, P.) Hecke operators and distributing points on S^2 . II. **88m:11025b**
- Manin, Yu. I. Theta-function representation of the partition function of a Polyakov string. **88m:81114**
See also Bellinson, A. A., **88g:11031** and Baranov, A. M.; et al., **88j:81036**
- Mozzochi, C. J. On the difference between consecutive primes. **88h:11057**
- Nicolai, H. (with Schellekens, A. N.) Topics in string theory. **88i:81152**
- Osborne, M. Scott The continuous spectrum: some explicit formulas. **88f:22037**
- Phillips, Ralph S. (with Sarnak, P.) Geodesics in homology classes. **88g:58151**
See also Lubotzky, Alexander; et al., **88m:11025a** and **88m:11025b**
- Pollicott, Mark Distribution of closed geodesics on the modular surface and quadratic irrationals. **88j:58102**
- Ramakrishnan, Dinakar Spectral decomposition of $L^2(N \backslash GL(2), \eta)$. **88f:22038**
- Roth, Jean-Pierre Le spectre du laplacien sur un graphe. [The spectrum of the Laplacian on a graph] **88f:58151**
- Sarnak, P. See Phillips, Ralph S., **88g:58151**; Lubotzky, Alexander; et al., **88m:11025a** and **88m:11025b**
- Sato, Fumihiko Eisenstein series on semisimple symmetric spaces of Chevalley groups. **88h:22025**
- Schellekens, A. N. (with Warner, N. P.) Anomalies, characters and strings. **88f:81107**
See also Nicolai, H., **88i:81152**
- Shvarts, A. S. See Baranov, A. M.; et al., **88j:81036**
- Sonoda, Hidenori Calculation of a propagator on a Riemann surface. **88f:81130**
- Sunada, Toshikazu On number-theoretic methods in geometry: the geometric analogues of zeta- and L -functions and their applications. (Japanese) **88f:58153**
- Tse, Richard See Brooks, Robert, **88m:58182**
- Uribe, Alejandro See Guillemin, Victor, **88a:58198**
- Varadarajan, V. S. The eigenvalue problem on negatively curved compact locally symmetric manifolds. **88c:58072**
- Wallace, D. I. Explicit form of the hyperbolic term in the Selberg trace formula for $SL(3, \mathbb{Z})$ and Pell's equation for hyperbolics in $SL(3, \mathbb{Z})$. **88c:11029**
- Warner, N. P. See Schellekens, A. N., **88f:81107**
- Yu, Wen Ch'ing (with Lin, Ts'ung Yüan) Dimension formulae for the vector spaces of Siegel cusp forms of degree three. **88a:11048**
A dimension formula for Hermitian modular cusp forms of degree two. **88c:11035**
- Zelditch, Steve Selberg trace formulae, Ψ DOs and equidistribution theorems for closed geodesics and Laplace eigenfunctions. **88m:58196**

11F75 Cohomology of arithmetic groups

- Ash, Avner (with Stevens, Glenn) Modular forms in characteristic l and special values of their L -functions. **88h:11036**
- Stevens, Glenn See Ash, Avner, **88h:11036**

Items secondarily classified 11F75

- Abels, Herbert (with Brown, Kenneth S.) Finiteness properties of solvable S -arithmetic groups: an example. **88g:20104**
- Brown, Kenneth S. Finiteness properties of groups. **88m:20110**
See also Abels, Herbert, **88g:20104**
- Clozel, Laurent On the cuspidal cohomology of arithmetic subgroups of $SL(2n)$ and the first Betti number of arithmetic 3-manifolds. **88m:22022**
- Gekeler, Ernst-Ulrich Cohomologie des sous-groupes S -arithmétiques de $GL(2)$ sur un corps de fonctions. [Cohomology of S -arithmetic subgroups of $GL(2)$ over a function field] **88d:11114**
- Kuga, Michio Group cohomology and Hecke operators. II. Hilbert modular surface case. **88e:11032**

11F80 Galois properties

- (Mestre, J.-F.) See Serre, J.-P., **88m:11039**
- Serre, J.-P. Lettre à J.-F. Mestre. [Letter to J.-F. Mestre] **88m:11039**

Items secondarily classified 11F80

- Hida, Haruzo Hecke algebras for GL_1 and GL_2 . **88i:11078**

11F85 p -adic theory, local fields [See also 14G20, 22E50.]

Items secondarily classified 11F85

- Hida, Haruzo Hecke algebras for GL_1 and GL_2 . **88i:11078**
- Schmidt, C.-G. The p -adic L -functions attached to Rankin convolutions of modular forms. **88e:11038**
- Wintenberger, Jean-Pierre Groupes algébriques associés à certaines représentations p -adiques. [Algebraic groups associated to certain p -adic representations] **88j:14056**

11F99 None of the above, but in this section

Items secondarily classified 11F99

- Chan, Shih-Ping Modular functions, elliptic functions and Galois module structure. **88j:11077**
- Driencourt, Yves (with Michon, Jean-Francis) Elliptic codes over fields of characteristic 2. **88m:94029**
- Michon, Jean-Francis See Driencourt, Yves, **88m:94029**
- Teranishi, Yasuo The variational theory of higher-order linear differential equations. **88d:14008**
- Tilouine, Jacques Un sous-groupe p -divisible de la jacobienne de $X_1(Np')$ comme module sur l'algèbre de Hecke. (English summary) [A p -divisible subgroup of the Jacobian of $X_1(Np')$ as a module over the Hecke algebra] **88m:11043**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx.]

- Lang, Serge ★ Основы диофантовой геометрии. (Russian) [Fundamentals of Diophantine geometry] **88a:11054**
- (Manin, Yu. I.) See Lang, Serge, **88a:11054**
- (Markushevich, D. G.) See Lang, Serge, **88a:11054**
- (Parshin, A. N.) See Lang, Serge, **88a:11054**
- (Zarkhin, Yu.) See Lang, Serge, **88a:11054**

11G05 Elliptic curves over global fields

- Barthel, Laure Courbes elliptiques et formes modulaires de poids $\frac{3}{2}$. [Elliptic curves and modular forms of weight $\frac{3}{2}$] **88a:11055**
- Bashmakov, M. I. Elliptic curves and units of number fields. (Russian) **88b:11031**
- Bertrand, Daniel Relations d'orthogonalité sur les groupes de Mordell-Weil. [Orthogonality relations on Mordell-Weil groups] **88h:11037**
- Chahal, Jasbir Singh The Mordell-Weil rank of elliptic curves. **88b:11032**
- Comalada, Salvador (with Nart, Enric) Courbes elliptiques avec bonne réduction partout. (English summary) [Elliptic curves with good reduction everywhere] **88h:11038**
- Dem'yanenko, V. A. Sharp estimates for orders of torsion of points of curves of genus 1. (Russian) **88k:11037**
- Elkies, Noam D. The existence of infinitely many supersingular primes for every elliptic curve over \mathbb{Q} . **88i:11034**
- Folz, H. G. (with Zimmer, H. G.) What is the rank of the Demjanenko matrix? **88k:11038**
- Frey, Gerhard Some aspects of the theory of elliptic curves over number fields. **88b:11033**
- Hriljac, Paul Splitting fields of principal homogeneous spaces. **88e:11043**
- Husemoller, Dale H. ★ Elliptic curves. **88h:11039**
- (Lawrence, Ruth) See Husemoller, Dale H., **88h:11039**
- Mestre, J.-F. Courbes de Weil et courbes supersingulières. [Weil curves and supersingular curves] **88b:11034**
- Momose, Fumiyuki Rational points on the modular curves $X_0^*(p')$. **88a:11056**
- Nart, Enric See Comalada, Salvador, **88h:11038**
- Peretti, A. The Diophantine equation $6y^2 = x(x+1)(2x+1)$. **88d:11055**
- Pinch, R. G. E. Elliptic curves with good reduction away from 3. **88d:11056**
- Satgé, Philippe Un analogue du calcul de Heegner. [An analogue of Heegner's computation] **88d:11057**
- Zimmer, H. G. See Folz, H. G., **88k:11038**

Items secondarily classified 11G05

- Coates, J. (with Schmidt, C.-G.) Iwasawa theory for the symmetric square of an elliptic curve. **88i:11077**
- Driencourt, Yves (with Michon, Jean-Francis) Elliptic codes over fields of characteristic 2. **88m:94029**
- Flach, Matthias Herleitung der Chowla-Selberg-Formel aus Shimuraschen Periodenrelationen. [Derivation of the Chowla-Selberg formula from Shimura's period relations] **88i:11057**
- Goldstein, Catherine Pot-pourri elliptique (complexe et) p -adique illustré. [Illustrated (complex and) p -adic elliptic potpourri] **88j:11032**
- Kihara, Shoichi On coprime integral solutions of $y^2 = x^3 + k$. **88h:11017**
On the rank of the elliptic curve $y^2 = x^3 + k$. **88h:11018**
- Lang, Serge ★ Elliptic functions. **88c:11028**
- Le Brigand, D. On computational complexity of some algebraic curves over finite fields. **88a:11134**
- Mazur, Barry C. (with Tate, J.) Refined conjectures of the "Birch and Swinnerton-Dyer type". **88k:11039**
- Mestre, J.-F. La méthode des graphes. Exemples et applications. [The method of graphs. Examples and applications] **88e:11025**
- Michon, Jean-Francis See Driencourt, Yves, **88m:94029**
- Momose, Fumiyuki Rational points on the modular curves $X_0^*(N)$. **88h:14031**

- Naito, Hirokazu Some results on class numbers and unramified extensions of algebraic number fields. **88e:11114**
- Perria-Rios, Bernadette Fonctions L p -adiques et points de Heegner. [p -adic L -functions and Heegner points] **88e:11038**
- Quer, Jordi Corps quadratiques de 3-rang 6 et courbes elliptiques de rang 12. (English summary) [Quadratic fields with 3-rank 6 and elliptic curves with rank 12] **88j:11074**
- Robert, Gilles Sur le corps de définition de certaines courbes elliptiques à multiplications complexes. [On the field of definition of certain elliptic curves with complex multiplication] **88m:11040**
- Saïgé, Philippe Quelques résultats sur les entiers qui sont somme des cubes de deux rationnels. [Some results on integers that are the sum of cubes of two rationals] **88e:11013**
- Schmidt, C.-G. See Costes, J., **88e:11077**
- Schnepf, Leila On the μ -invariant of p -adic L -functions attached to elliptic curves with complex multiplication. **88b:11071**
- Serre, J.-P. Sur les représentations modulaires de degré 2 de $\text{Gal}(\bar{\mathbb{Q}}/\mathbb{Q})$. [On modular representations of degree 2 of $\text{Gal}(\bar{\mathbb{Q}}/\mathbb{Q})$] **88g:11022**
- Tate, J. See Mazur, Barry C., **88c:11039** and Lang, Serge, **88c:11028**
- Tilouine, Jacques Fonctions L p -adiques à deux variables et \mathbb{Z}_p^2 -extensions. (English summary) [p -adic L -functions of two variables and \mathbb{Z}_p^2 -extensions] **88e:11051**
- Zagier, Don Bernard Modular points, modular curves, modular surfaces and modular forms. **88j:11033**

11G07 Elliptic curves over local fields

Items secondarily classified 11G07

- Dwork, B. On the Tate constant. **88e:14030**
- Frey, Gerhard Some aspects of the theory of elliptic curves over number fields. **88b:11033**
- Lang, Serge ★ Elliptic functions. **88c:11028**
- Poulakis, Dimitrios Évaluation d'une somme cubique de caractères. [Evaluation of cubic character sums] **88j:11052**
- van der Put, M. The cohomology of Monsky and Washnitzer. (French summary) **88e:14022**
- Robba, P. Une introduction naïve aux cohomologies de Dwork. (English summary) [An elementary introduction to the Dwork cohomologies] **88a:14023**
- (Tate, J.) See Lang, Serge, **88c:11028**

11G10 Abelian varieties of dimension > 1

- Schneider, P. Arithmetic of formal groups and applications. I. Universal norm subgroups. **88e:11044**

Items secondarily classified 11G10

- Abrashkin, V. A. Group schemes of period p over the ring of Witt vectors. (Russian) **88b:14033**
- Honda systems of group schemes of period p . **88m:14035**
- André, Yves Multiplication complexe dans les pincesaux de variétés abéliennes. [Complex multiplication in pencils of abelian varieties] **88j:14055**
- Chi, Wenchen Twists of central simple algebras and endomorphism algebras of some abelian varieties. **88g:14038**
- Demazure, Michel ★ Lectures on p -divisible groups. **88a:14049**
- Hindry, Marc Points de torsion sur les sous-variétés de variétés abéliennes. (English summary) [Torsion points on subvarieties of abelian varieties] **88g:14039**
- Imai, Hideo On the p -adic heights of some abelian varieties. **88e:14058**
- Jacquinot, Olivier (with Ribet, Kenneth A.) Deficient points on extensions of abelian varieties by G_n . **88g:14040**
- Lang, Herbert Abelian varieties with several principal polarizations. **88b:14039**
- McCallum, William G. Duality theorems for Néron models. **88c:14062**
- Poulakis, Dimitrios La courbe modulaire $X_0(125)$ et sa jacobienne. (English summary) [The modular curve $X_0(125)$ and its Jacobian] **88f:11057**
- Ribet, Kenneth A. On i -adic representations attached to modular forms. II. **88a:11041**
- Cohomological realization of a family of l -motives. **88g:14041**
- See also Jacquinot, Olivier, **88g:14040**
- Zarkhin, Yu. G. Linear semisimple Lie algebras containing an operator with small number of eigenvalues. **88a:17016**
- Representations of semisimple Lie algebras arising from cohomology of algebraic varieties. **88m:17008**
- Endomorphisms and torsion of abelian varieties. **88b:14046**

Unauthored items

- Lecture Notes in Mathematics See Demazure, Michel, **88a:14049**

11G15 Complex multiplication and moduli of abelian varieties [See also 14K22.]

- Anderson, Greg W. Cyclotomy and an extension of the Taniyama group. **88e:11045**
- Blasius, Don On the critical values of Hecke L -series. **88i:11035**
- Buxall, John L. A new construction of p -adic L -functions attached to certain elliptic curves with complex multiplication. (French summary) **88e:11036**
- Flach, Matthias Herleitung der Chowla-Selberg-Formel aus Shimuraschen Periodenrelationen. [Derivation of the Chowla-Selberg formula from Shimura's period relations] **88a:11057**
- Gross, Benedict H. Heegner points and the modular curve of prime level. **88c:11037**
- Jordan, Bruce W. Points on Shimura curves rational over number fields. **88j:11030**
- Kohnen, Winfried p -adic distributions associated to Heegner points on modular curves. **88c:11038**

- Robert, Gilles Sur le corps de définition de certaines courbes elliptiques à multiplications complexes. [On the field of definition of certain elliptic curves with complex multiplication] **88m:11040**

Items secondarily classified 11G15

- Carayol, Henri Sur la mauvaise réduction des courbes de Shimura. [Bad reduction of Shimura curves] **88a:11058**
- Goldstein, Catherine Pot-pourri elliptique (complexe et) p -adique illustré. [Illustrated (complex and) p -adic elliptic potpourri] **88j:11032**
- Lang, Serge ★ Elliptic functions. **88c:11028**
- Schertz, Reinhard Zum Reziprozitätsgesetz der komplexen Multiplikation. [On the reciprocity law of complex multiplication] **88f:11077**
- (Tate, J.) See Lang, Serge, **88c:11028**
- Zarkhin, Yu. G. Representations of semisimple Lie algebras arising from cohomology of algebraic varieties. **88m:17008**

11G16 Elliptic and modular units

- Charkani El Hassani, M. (with Gillard, R.) Unités elliptiques et groupes de classes. (English summary) [Elliptic units and class groups] **88f:11056**
- Gillard, R. Sur la structure galoisienne de certains groupes de classes. [On the Galois structure of certain class groups] **88m:11041**
- See also Charkani El Hassani, M., **88f:11056**

Items secondarily classified 11G16

- Goldstein, Catherine L'invariant μ des fonctions L p -adiques des courbes elliptiques à multiplication complexe est nul (d'après L. Schneps et R. Gillard). [The μ -invariant of p -adic L -functions of elliptic curves with complex multiplication is zero (after L. Schneps and R. Gillard)] **88g:11077**
- Saito, Hiraishi Elliptic units and a Kummer's criterion for imaginary quadratic fields. **88c:11110**
- Schertz, Reinhard Niedere Potenzen elliptischer Einheiten. [Low powers of elliptic units] **88h:11079**

11G18 Arithmetic of modular and Shimura varieties

- Carayol, Henri Sur la mauvaise réduction des courbes de Shimura. [Bad reduction of Shimura curves] **88a:11058**
- Harris, Michael Arithmetic vector bundles and automorphic forms on Shimura varieties. I. **88e:11046**
- Arithmetic vector bundles and automorphic forms on Shimura varieties. II. **88f:11047**
- Jordan, Bruce W. (with Livné, Ron A.) On the Néron model of Jacobians of Shimura curves. **88c:11039**
- Klingenberg, Christoph Die Tate-Vermutungen für Hilbert-Blumenthal-Flächen. [The Tate conjectures for Hilbert-Blumenthal surfaces] **88m:11042**
- Langlands, R. P. (with Rapoport, M.) Shimuravarietäten und Gerben. [Shimura varieties and gerbs] **88i:11036**
- Livné, Ron A. See Jordan, Bruce W., **88c:11039**
- Mazur, Barry C. (with Wiles, A.) On p -adic analytic families of Galois representations. **88e:11048**
- Poulakis, Dimitrios La courbe modulaire $X_0(125)$ et sa jacobienne. (English summary) [The modular curve $X_0(125)$ and its Jacobian] **88f:11057**
- Rapoport, M. See Langlands, R. P., **88i:11036**
- Tilouine, Jacques Un sous-groupe p -divisible de la jacobienne de $X_1(Np')$ comme module sur l'algèbre de Hecke. (English summary) [A p -divisible subgroup of the Jacobian of $X_1(Np')$ as a module over the Hecke algebra] **88m:11043**
- Wiles, A. See Mazur, Barry C., **88e:11048**

Items secondarily classified 11G18

- Addington, Susan L. Equivariant holomorphic maps of symmetric domains. **88g:32053**
- Baily, Walter L., Jr. Arithmetic Hilbert modular functions. III. **88a:11044**
- Blasius, Don On the critical values of Hecke L -series. **88i:11035**
- Carayol, Henri Formes modulaires et représentations l -adiques. [Modular forms and l -adic representations] **88d:11120**
- Chai, Ching-Li ★ Compactification of Siegel moduli schemes. **88b:32074**
- Gekeler, Ernst-Ulrich ★ Drinfeld modular curves. **88b:11077**
- Gross, Benedict H. Heegner points and the modular curve of prime level. **88c:11037**
- Hida, Haruzo Iwasawa modules attached to congruences of cusp forms. **88i:11023**
- Horie, Kuniaki A note on basic Iwasawa λ -invariants of imaginary quadratic fields. **88i:11073**
- Jordan, Bruce W. Points on Shimura curves rational over number fields. **88j:11030**
- Ramakrishnan, Dinakar Higher regulators on quaternionic Shimura curves and values of L -functions. **88a:14027**
- Robert, Gilles Sur le corps de définition de certaines courbes elliptiques à multiplications complexes. [On the field of definition of certain elliptic curves with complex multiplication] **88m:11040**
- Saïgé, Philippe Un analogue du calcul de Heegner. [An analogue of Heegner's computation] **88d:11057**
- Sekiguchi, Tsutomu On the field of moduli for a curve and an abelian variety. (Japanese. English summary) **88b:14010**
- Smit, Dirk-Jan String theory and algebraic geometry of moduli spaces. **88m:14019**

Unauthored items

- Lecture Notes in Mathematics See Gekeler, Ernst-Ulrich, **88b:11077**

11G20 Curves over finite and local fields

- Goldman, Jay R. Numbers of solutions of congruences: Poincaré series for algebraic curves. 88b:11035
- Lachaud, Gilles Sommes d'Eisenstein et nombre de points de certaines courbes algébriques sur les corps finis. (English summary) [Eisenstein sums and number of points of some algebraic curves over finite fields] 88m:11044
- Madan, Manohar L. See Villa Salvador, Gabriel D., 88d:11059
- Rohrlich, David E. Jacobi sums and explicit reciprocity laws. 88e:11049
- Rück, Hans-Georg A note on elliptic curves over finite fields. 88d:11058
- Villa Salvador, Gabriel D. (with Madan, Manohar L.) Structure of semisimple differentials and p -class groups in Z_p -extensions. 88d:11059

Items secondarily classified 11G20

- Barg, A. M. (with Katsman, G. L.; Tsfasman, M. A.) Algebro-geometric codes on curves of small genera. (Russian) 88i:94028
- Cantor, David G. Computing in the Jacobian of a hyperelliptic curve. 88f:11118
- Chudnovsky, D. V. (with Chudnovsky, G. V.) Sequences of numbers generated by addition in formal groups and new primality and factorization tests. 88h:11094
- Chudnovsky, G. V. See Chudnovsky, D. V., 88h:11094
- Katsman, G. L. See Barg, A. M.; et al., 88i:94028
- Landsburg, Steven E. p -adic cohomology and zeta functions of elliptic curves. 88k:14012
- Schoof, R. J. Nonsingular plane cubic curves over finite fields. 88k:14013
- Sperber, Steven Monodromy, Gauss sums, and the slopes of Frobenius for generalized hyper-Kloosterman sums. 88k:11092
- Tsfasman, M. A. See Barg, A. M.; et al., 88i:94028
- Wolfmann, Jacques Nombre de points rationnels de courbes algébriques sur des corps finis associées à des codes cycliques. (English summary) [Number of rational points of algebraic curves over finite fields associated with cyclic codes] 88k:11025

11G25 Varieties over finite and local fields

- Deneč, J. On the evaluation of certain p -adic integrals. 88j:11031
- Matignon, M. Genre des corps de fonctions valués après Dearing, Lamprecht et Mathieu. [Genus of valued function fields following Dearing, Lamprecht and Mathieu] (See 88g:11003)

Items secondarily classified 11G25

- Aoki, Noboru A note on complete intersections of Fermat type. 88f:14044
- Coray, Daniel F. Cubic hypersurfaces and a result of Hermite. 88m:11014
- Frey, Gerhard (with Rück, Hans-Georg) The strong Lefschetz principle in algebraic geometry. 88f:14023
- Jordan, Bruce W. (with Livné, Ron A.) On the Néron model of Jacobians of Shimura curves. 88c:11039
- Kaneko, Masanobu On conjugacy classes of the pro- l braid group of degree 2. 88a:11111
- Livné, Ron A. See Jordan, Bruce W., 88c:11039
- Polzin, M. Extension of Gauss valuation and Skolem property. (See 88g:11003)
- Rück, Hans-Georg See Frey, Gerhard, 88f:14023
- Wintenberger, Jean-Pierre Groupes algébriques associés à certaines représentations p -adiques. [Algebraic groups associated with certain p -adic representations] 88i:14042

11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields

- Brown, Martin Lawrence Endomorphisms of group schemes and rational points on curves. (French summary) 88b:11040
- Hindry, Marc Points quadratiques sur les courbes. (English summary) [Quadratic points on curves] 88i:11037
- Mazur, Barry C. Arithmetic on curves. 88e:11050
- Roquette, Peter Reciprocity in valued function fields. 88f:11058

Items secondarily classified 11G30

- Chinberg, T. Intersection theory and capacity theory on arithmetic surfaces. 88g:14021
- Kenku, M. A. (with Momose, Fumiyuki) Automorphism groups of the modular curves $X_0(N)$. 88m:14015
- Momose, Fumiyuki See Kenku, M. A., 88m:14015
- Ruppert, Wolfgang Michael Reduzibilität ebener Kurven. [Reducibility of plane curves] 88j:14010
- Schmidt, C.-G. Die Fermat-Kurve und ihre Jacobi-Mannigfaltigkeit. [The Fermat curve and its Jacobian] 88g:11013
- Stöhr, Karl-Otto (with Voloch, José Felipe) A formula for the Cartier operator on plane algebraic curves. 88g:14026
- Vladut, Serge G. An exhaustion bound for algebro-geometric "modular" codes. (Russian) 88i:94027
- Voloch, José Felipe See Stöhr, Karl-Otto, 88g:14026

11G35 Varieties over global fields

- Borcea, Ciprian $K3$ surfaces and complex multiplication. 88f:11059
- Colliot-Thélène, Jean-Louis (with Sansuc, Jean-Jacques; Swinnerton-Dyer, H. P. F.) Intersections of two quadrics and Châtelet surfaces. I. 88m:11045a
- (with Sansuc, Jean-Jacques; Swinnerton-Dyer, H. P. F.) Intersections of two quadrics and Châtelet surfaces. II. 88m:11045b
- See also Kato, Kazuya, 88b:11036
- Kato, Kazuya A Hasse principle for two-dimensional global fields. 88b:11036
- Sansuc, Jean-Jacques See Colliot-Thélène, Jean-Louis; et al., 88m:11045a and 88m:11045b
- Swinnerton-Dyer, H. P. F. See Colliot-Thélène, Jean-Louis; et al., 88m:11045a and 88m:11045b

Items secondarily classified 11G35

- Colliot-Thélène, Jean-Louis (with Sansuc, Jean-Jacques) La descente sur les surfaces rationnelles fibrées en coniques. (English summary) [Descent upon conic bundles over the projective line] 88h:14043
- Donal, Jean-Claude Cohomologie des schémas en groupes sur les courbes définies sur les corps quasi-finis et loi de réciprocité. [Cohomology of group schemes on curves defined over quasifinite fields and the reciprocity law] 88m:14036
- Gillet, H. An introduction to higher-dimensional Arakelov theory. 88h:14005
- Lang, Serge Variétés hyperboliques et analyse diophantienne. [Hyperbolic manifolds and Diophantine analysis] 88i:32033
- Muder, Douglas J. Concerning a conjecture of Colliot-Thélène and Sansuc. 88i:14004
- Ooe, Takeshi Arithmetical Torelli theorems for $K3$ surfaces and for curves. 88g:14035
- Salberger, Per Sur l'arithmétique de certaines surfaces de Del Pezzo. (English summary) [On the arithmetic of certain Del Pezzo surfaces] 88h:14042
- Sansuc, Jean-Jacques See Colliot-Thélène, Jean-Louis, 88h:14043
- Serre, J.-P. ★ Groupes algébriques et corps de classes. (French) [Algebraic groups and class fields] 88c:14044
- Silverman, Joseph H. A survey of the theory of height functions. 88i:14013

11G40 L -functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture

- Bellinson, A. A. Higher regulators of modular curves. 88f:11060
- Bernardi, Dominique Travaux de Gross et Zagier. [Works of Gross and Zagier] 88m:11046
- Bloch, Spencer (with Grayson, Daniel R.) K_2 and L -functions of elliptic curves: computer calculations. 88f:11061
- Goldstein, Catherine Pot-pourri elliptique (complexe et) p -adique illustré. [Illustrated (complex and) p -adic elliptic potpourri] 88j:11032
- Grayson, Daniel R. See Bloch, Spencer, 88f:11061
- Livné, Ron A. Cubic exponential sums and Galois representations. 88g:11032
- Mazur, Barry C. (with Tate, J.) Refined conjectures of the "Birch and Swinnerton-Dyer type". 88k:11039
- Perrin-Riou, Bernadette Points de Heegner et dérivées de fonctions L p -adiques. (English summary) [Heegner points and derivatives of p -adic L -functions] 88c:11040
- Fonctions L p -adiques et points de Heegner. [p -adic L -functions and Heegner points] 88i:11038
- Rajwade, A. R. See Rishi, Dharam Bir, 88f:11062
- Rishi, Dharam Bir (with Rajwade, A. R.) On the integer property of the L -function for the elliptic curve with complex multiplication by the Gaussian integers. 88f:11062
- Soulé, C. Valeurs des fonctions L de variétés algébriques. [Values of L functions of algebraic varieties] 88h:11041
- Tate, J. See Mazur, Barry C., 88k:11039
- Tilouine, Jacques Fonctions L p -adiques à deux variables et Z_p -extensions. (English summary) [p -adic L -functions of two variables and Z_p -extensions] 88c:11051
- Turner, S. Gauss sums and algebraic cycles. 88m:11047
- Zagier, Don Bernard Modular points, modular curves, modular surfaces and modular forms. 88j:11033

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- Abdullaev, I. (with Dusumbetov, A. D.; Kogan, L. A.) A generalized conjecture of A. Weil in connection with special Dirichlet series. (Russian) 88f:11049
- Barthel, Laure Courbes elliptiques et formes modulaires de poids $\frac{3}{2}$. [Elliptic curves and modular forms of weight $\frac{3}{2}$] 88c:11055
- Boxall, John L. A new construction of p -adic L -functions attached to certain elliptic curves with complex multiplication. (French summary) 88c:11036
- Coates, J. (with Schmidt, C.-G.) Iwasawa theory for the symmetric square of an elliptic curve. 88i:11077
- Coombs, Kevin R. Motifs, L -functions, and the K -cohomology of rational surfaces over finite fields. 88c:14030
- Dusumbetov, A. D. See Abdullaev, I.; et al., 88f:11049
- Frey, Gerhard Some aspects of the theory of elliptic curves over number fields. 88b:11033
- Hettinger, Karl F. A note on the 2-part of $K_2(\mathcal{O}_F)$ for totally real number fields F . 88g:11089
- Hooley, Christopher On Waring's problem. 88c:11055
- Hurrelbrink, J. (with Kolster, Manfred) On the 2-primary part of the Birch-Tate conjecture for cyclotomic fields. 88a:11114
- Klingenberg, Christoph Die Tate-Vermutungen für Hilbert-Blumenthal-Flächen. [The Tate conjectures for Hilbert-Blumenthal surfaces] 88m:11042
- Kodama, Tetsuo (with Washio, Tadashi) On class numbers of hyperelliptic function fields with Hasse-Witt-invariant zero. 88i:11068
- Kogan, L. A. See Abdullaev, I.; et al., 88f:11049
- Kolster, Manfred See Hurrelbrink, J., 88a:11114
- Kunyavskii, B. É. (with Skorobogatov, A. N.) Maximal tori in semisimple groups, and rational surfaces. (Russian) 88f:11029
- Laumon, G. Transformation de Fourier, constantes d'équations fonctionnelles et conjecture de Weil. [Fourier transform, constants of functional equations and the Weil conjecture] 88g:14019
- Nejib, Boualhia Remarque sur l'arithmétique des 2-formes différentielles de deuxième espèce. (English summary) [Remark on the arithmetic of differential 2-forms of the second kind] 88d:14012
- Poulakis, Dimitrios La courbe modulaire $X_0(125)$ et sa jacobienne. (English summary) [The modular curve $X_0(125)$ and its Jacobian] 88f:11057
- Schmidt, C.-G. See Coates, J., 88i:11077
- Skorobogatov, A. N. See Kunyavskii, B. É., 88f:11029
- Thakur, D. S. Number fields and function fields (zeta and gamma functions at all primes). (See 88g:11003)
- Washio, Tadashi See Kodama, Tetsuo, 88i:11068

11G45 Geometric class field theory [See also 11R37.]

- Colliot-Thélène, Jean-Louis (with Raskind, Wayne) On the reciprocity law for surfaces over finite fields. **88b:11037**
- Iribelidze, O. T. On the torsion subgroup of Milnor K -groups. (Russian) **88m:11048**
- Kato, Kazuya (with Saito, Shuji) Global class field theory of arithmetic schemes. **88c:11041**
- Raskind, Wayne See Colliot-Thélène, Jean-Louis, **88b:11037**
- Saito, Shuji See Kato, Kazuya, **88c:11041**

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- Bluck, Spencer Algebraic cycles and the Beilinson conjectures. **88e:14006**
- Algebraic cycles and higher K -theory. **88f:18010**
- Correction to: "Algebraic K -theory and class field theory for arithmetic surfaces" [Ann. of Math. (2) **114** (1981), no. 2, 229–265; MR **83m:14025**]. **88k:14020**
- Deninger, Christopher l -adic Lefschetz numbers of arithmetic schemes. **88f:14017**
- Dwyer, W. G. (with Friedlander, Eric Mark) Some remarks on the K -theory of fields. **88a:18016**
- Fesenko, I. B. See Vostokov, S. V., **88a:11128**
- Friedlander, Eric Mark See Dwyer, W. G., **88a:18016**
- Kato, Kazuya Milnor K -theory and the Chow group of zero cycles. **88c:14012**
- Laumon, G. Correspondance de Langlands géométrique pour les corps de fonctions. [Geometric Langlands correspondence for function fields] **88g:11006**
- Serre, J.-P. \star Algebraic groups and class fields. **88i:14041**
- Vostokov, S. V. (with Fesenko, I. B.) Torsion in Milnor's higher functors for multidimensional local fields. (Russian) **88a:11128**

11G99 None of the above, but in this section

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- Colliot-Thélène, Jean-Louis (with Sansuc, Jean-Jacques) Principal homogeneous spaces under flasque tori: applications. **88j:14059**
- Grossman, Bernard p -adic strings, the Weil conjectures and anomalies. **88m:81104**
- Levin, A. M. Supersymmetric elliptic curves. (Russian) **88j:14036**
- Lichtenbaum, Stephen The construction of weight-two arithmetic cohomology. **88d:14011**
- Milne, J. S. \star Arithmetic duality theorems. **88e:14028**
- Sansuc, Jean-Jacques See Colliot-Thélène, Jean-Louis, **88j:14059**
- Schwartz, Charles F. On a family of elliptic surfaces with Mordell-Weil rank 4. **88j:14045**
- Stiller, Peter F. The Picard numbers of elliptic surfaces with many symmetries. **88c:14054**

11Hxx Geometry of numbers

- Gruber, Peter M. (with Lekkerkerker, C. G.) \star Geometry of numbers. **88j:11034**
- Lekkerkerker, C. G. See Gruber, Peter M., **88j:11034**

11H06 Lattices and convex bodies [See also 11P21.]

- Bambah, R. P. (with Dumir, V. C.; Hans-Gill, R. J.) On an analogue of a problem of Mordell. **88e:11039**
- Bondal, A. I. (with Kostrikin, Alexei Ivanovich; Fam Khyu T'ep) Invariant lattices, the Leech lattice and its even unimodular analogues in the Lie algebras A_{p-1} . (Russian) **88c:11052**
- Dumir, V. C. See Bambah, R. P.; et al., **88e:11039**
- Fam Khyu T'ep See Bondal, A. I.; et al., **88c:11052**
- Hans-Gill, R. J. See Bambah, R. P.; et al., **88e:11039**
- Kostrikin, Alexei Ivanovich See Bondal, A. I.; et al., **88c:11052**
- Protasov, I. V. Cocyclic lattices. (Russian. English summary) **88h:11042**
- Quebbemann, H.-G. Lattices with theta functions for $G(\sqrt{2})$ and linear codes. **88f:11063**
- Rodnitskii, O. I. On the basis invariants, in a six-dimensional unitary space, of the Mitchell reflection group. (Russian) **88m:11049**
- Schlägel, A. A decomposition of integer vectors. I. (Russian summary) **88m:11050**
- Skubenko, B. F. Cyclic sets of numbers and lattices. (Russian) **88m:11051**
- Uhrin, B. Lattice points in difference sets. (Russian and Hungarian summaries) **88e:11053**
- Voakil, Harm A special basis for the Leech lattice. **88d:11060**
- Wetwitschka, Karsten Zwei Analogien zum Gitterpunktsatz von Minkowski im triagonalen Punktgitter. [Two analogies on Minkowski's convex body theorem in the triangular point lattice] **88m:11052**
- Worley, R. T. The Voronoi region of E_7^* . **88i:11040**

Items secondarily classified 11H06

- Babai, L. On Lovász' lattice reduction and the nearest lattice point problem. **88a:68049**
- Baltag, I. A. Representation of three-dimensional lattices of Minkowski space by integral forms. (Russian) **88c:52008**
- Bombieri, E. (with Taylor, Jean E.) Which distributions of matter diffract? An initial investigation. **88a:52015**
- Cohen, Gérard Denis (with Lobstein, Antoine-C.; Sloane, N. J. A.) On a conjecture concerning coverings of Hamming space. **88f:94034**
- Dieter, U. Calculating shortest vectors in a lattice. **88a:11059**
- Fejes Tóth, L. Densest packing of translates of the union of two circles. **88e:52021**
- Hall, Sz. Maria Das dichteste gitterförmige p -System der Kugeln. [The densest lattice-form p -system of balls] **88b:52029**
- Kaslov, M. K. \star Алгоритмы вычисления объемов, использующие аппарат преобразования Лапласа. (Russian) [Algorithms for the calculation of volumes using the technique of Laplace transforms] **88j:11014**
- Lerche, Wolfgang (with Lüst, Dieter; Schellekens, A. N.) Ten-dimensional heterotic strings from Niemeier lattices. **88m:81111a**
- (with Lüst, Dieter; Schellekens, A. N.) Erratum: "Ten-dimensional heterotic strings from Niemeier lattices". **88m:81111b**
- Lobstein, Antoine-C. See Cohen, Gérard Denis; et al., **88f:94034**

- Lovász, L. Some algorithmic problems on lattices. **88a:90141**
- Lüst, Dieter See Lerche, Wolfgang; et al., **88m:81111a** and **88m:81111b**
- Macdonald, I. G. Regular simplexes with integral vertices. **88g:11018**
- Mattson, H. F., Jr. An improved upper bound on covering radius. **88f:94041**
- Rush, Jason A. (with Sloane, N. J. A.) An improvement to the Minkowski-Hlawka bound for packing superballs. **88j:11035**
- Schellekens, A. N. See Lerche, Wolfgang; et al., **88m:81111a** and **88m:81111b**
- Scott, P. R. On the area of planar convex sets containing many lattice points. **88e:52017**
- Sloane, N. J. A. See Cohen, Gérard Denis; et al., **88f:94034** and **88j:11035**
- Szabó, Sándor A reduction of Keller's conjecture. **88j:52032**
- Taylor, Jean E. See Bombieri, E., **88a:52015**
- Temesvári, Ágota H. Über die lockere doppelgitterförmige 2-fache Überdeckung der Ebene mit Einheitskreisen. [On the loose double-lattice 2-fold covering of the plane with unit discs] **88m:52028**

11H16 Nonconvex bodies

Items secondarily classified 11H16

- (Hadwiger, H.) See Uhrin, B., **88i:11040**
- Uhrin, B. A remark to the paper of H. Hadwiger: "Covering of space by translation-equal point sets and the number of neighbors" [Monatsh. Math. **73** (1969), 213–217; MR **40** #7952]. **88i:11040**

11H25 Minkowski-Hlawka theorem; Siegel mean value theorem

- (Hadwiger, H.) See Uhrin, B., **88i:11040**
- Rush, Jason A. (with Sloane, N. J. A.) An improvement to the Minkowski-Hlawka bound for packing superballs. **88j:11035**
- Sloane, N. J. A. See Rush, Jason A., **88j:11035**
- Uhrin, B. A remark to the paper of H. Hadwiger: "Covering of space by translation-equal point sets and the number of neighbors" [Monatsh. Math. **73** (1969), 213–217; MR **40** #7952]. **88i:11040**

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- Paysant-Le Roux, R. Calibre d'un corps de nombres. (English summary) [Caliber of a number field] **88b:11073**
- Uhrin, B. Lattice points in difference sets. (Russian and Hungarian summaries) **88e:11053**

11H31 Lattice packing and covering [See also 05B40, 52A45.]

- Bolle, U. Über die Dichte mehrfacher gitterförmiger Kreisanordnungen in der Ebene. [On the density of multiple lattice-arrangements of circles in the plane] **88c:11042**
- Dauenhauer, Mary H. (with Zassenhaus, H.) Local optimality of the critical lattice sphere-packing of regular tetrahedra. **88g:11033**
- Gruber, Peter M. Typical convex bodies have surprisingly few neighbours in densest lattice packings. **88g:11034**
- Horváth, Jenő See Temesvári, Ágota H.; et al., **88i:11041**
- Ramharter, G. Lattice coverings and the diagonal group. **88d:11061**
- Rodin, Burt Schwarz's lemma for circle packings. **88h:11043**
- Temesvári, Ágota H. (with Horváth, Jenő; Yakovlev, N. N.) A method for finding the densest lattice k -fold packing of circles. (Russian) **88i:11041**
- Yakovlev, N. N. See Temesvári, Ágota H.; et al., **88i:11041**
- Zassenhaus, H. See Dauenhauer, Mary H., **88g:11033**

Items secondarily classified 11H31

- Bambah, R. P. (with Dumir, V. C.; Hans-Gill, R. J.) On an analogue of a problem of Mordell. **88e:11039**
- Bárány, Imre An extension of the Erdős-Székere theorem on large angles. **88m:52013**
- Blind, G. (with Blind, R.) Ein Kreissüberdeckungsproblem. [A circle covering problem] **88m:52023**
- Blind, R. See Blind, G., **88m:52023**
- Blinovskii, V. M. A lower bound on the number of words of a linear code in an arbitrary sphere with given radius in F_q^n . (Russian) **88i:94018**
- Boroczky, K. Closest packing and loosest covering of the space with balls. **88g:52003**
- Bourgain, J. On lattice packing of convex symmetric sets in \mathbb{R}^n . **88k:52015**
- Calderbank, A. R. (with Sloane, N. J. A.) New trellis codes based on lattices and cosets. **88b:94015**
- Cohen, Gérard Denis (with Lobstein, Antoine-C.; Sloane, N. J. A.) On a conjecture concerning coverings of Hamming space. **88f:94034**
- (with Lobstein, Antoine-C.; Sloane, N. J. A.) Further results on the covering radius of codes. **88b:94019**
- Costello, Patrick J. (with Hsia, J. S.) Even unimodular 12-dimensional quadratic forms over $\mathbb{Q}(\sqrt{5})$. **88h:11023**
- Dress, Andreas Relaxations of periodicity in the topological theory of tilings. **88g:52004**
- Dumir, V. C. See Bambah, R. P.; et al., **88e:11039**
- Fejes Tóth, L. Densest packing of translates of the union of two circles. **88e:52021**
- Gritzmann, P. (with Wills, J. M.) Finite packing and covering. **88h:52022**
- Groemer, H. Multiple packings and coverings. **88g:52007**
- Haas, Andrew Howard The geometry of Markoff forms. **88j:11037**
- Hans-Gill, R. J. See Bambah, R. P.; et al., **88e:11039**
- Honkala, Iiro On the intersections and unions of Hamming spheres. **88j:94047**
- Hsia, J. S. See Costello, Patrick J., **88h:11023**
- Iorgov, Vasil I. Doubly-even extremal codes of length 64. (Russian) **88j:94049**
- Litsyn, S. N. (with Tsfasman, M. A.) Constructive high-dimensional sphere packings. **88g:52012**
- Lobstein, Antoine-C. See Cohen, Gérard Denis; et al., **88f:94019** and **88f:94034**
- Mattson, H. F., Jr. An improved upper bound on covering radius. **88f:94041**

- Mögling, Werner Zur Gitterpunktüberdeckung durch reguläre n -Ecke mit gerader Eckenzahl. [Lattice point coverings by regular n -gons with even vertex number] 88b:52026
- Peresverzeva, N. A. The distribution of vectors with algebraic coordinates in \mathbb{R}^2 . (Russian. English summary) 88m:11080
- Quebbemann, H.-G. Lattices with theta functions for $G(\sqrt{2})$ and linear codes. 88f:11063
- Rudnitskii, O. I. On the basis invariants, in a six-dimensional unitary space, of the Mitchell reflection group. (Russian) 88m:11049
- Sloane, N. J. A. See Calderbank, A. R., 88b:94015; Cohen, Gérard Denis; et al., 88b:94019 and 88f:94034
- Stein, S. K. Lattice-tiling by certain star bodies. 88g:52013
- Temesvári, Ágota H. Die dünnste gitterförmige 5-fache Kreisüberdeckung der Ebene. [The thinnest lattice-like 5-fold covering of the plane by circles] 88k:52024
- Tsfasman, M. A. See Litsyn, S. N., 88g:52012
- Voskuil, Harm A special basis for the Leech lattice. 88d:11060
- Wills, J. M. See Gritzmann, P., 88h:52022
- Worley, R. T. The Voronoi region of E_8^* . 88k:11040

11H41 Miscellaneous problems

Items secondarily classified 11H41

- Gromov, Mikhael L. Monotonicity of the volume of intersection of balls. 88m:52020

11H46 Products of linear forms

- Andriyasyan, A. K. (with Il'in, I. V.; Malyshev, A. V.) Application of computers to estimates of Chebotarev type in the nonhomogeneous Minkowski conjecture. (Russian) 88h:11044
- Cusick, T. W. Isolation theorem for products of linear forms. 88f:11064
- Il'in, I. V. See Andriyasyan, A. K.; et al., 88h:11044
- Malyshev, A. V. See Andriyasyan, A. K.; et al., 88h:11044

Items secondarily classified 11H46

- Gaál, István Norm form equations with several dominating variables and explicit lower bounds for inhomogeneous linear forms with algebraic coefficients. 88e:11057a
- Norm form equations with several dominating variables and explicit lower bounds for inhomogeneous linear forms with algebraic coefficients. II. 88e:11057b
- Potemkina, A. V. On the finite determination of the convex hull of the intersection of a convex set with an integer lattice. (Russian) 88m:52005
- Ramharter, G. Lattice coverings and the diagonal group. 88d:11061

11H50 Minima of forms

- Csóka, G. Three theorems on the minimal vectors of perfect lattices. 88g:11035
- Dieter, U. Calculating shortest vectors in a lattice. 88a:11059
- Nowak, Werner Georg On the minimum of a ternary cubic form. 88b:11038

Items secondarily classified 11H50

- Aurenhammer, Franz Power diagrams: properties, algorithms and applications. 88d:68096
- Cook, Roger J. (with Raghavan, Srinivasacharya) Small independent zeros of quadratic forms. 88f:11025
- Kannan, Ravindran (with McGeoch, Lyle A.) Basis reduction and evidence for transcendence of certain numbers. 88g:11038
- McGeoch, Lyle A. See Kannan, Ravindran, 88g:11038
- Raghavan, Srinivasacharya See Cook, Roger J., 88f:11025
- Reznick, Bruce A quantitative version of Hurwitz' theorem on the arithmetic-geometric inequality. 88e:11019

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

- Baltag, I. A. (with Banar, V. V.) A method for calculating reduced inequivalent ternary indeterminate integral forms with given determinant. (Russian) 88a:11060
- Banar, V. V. See Baltag, I. A., 88a:11060
- Cook, Roger J. (with Raghavan, Srinivasacharya) Positive values of indefinite quadratic forms. 88f:11065
- Prasad, K. C. Minima of certain indefinite binary quadratic forms. 88d:11062
- Raghavan, Srinivasacharya See Cook, Roger J., 88f:11065
- Ryshkov, S. S. (with Umarov, M. Kh.) Minimization of a higher-dimensional ζ -function. (Russian) 88a:11061
- Schlickewel, Hans Peter (with Schmidt, Wolfgang M.) Quadratic geometry of numbers. 88g:11036
- Schmidt, Wolfgang M. See Schlickewel, Hans Peter, 88g:11036
- Tammela, P. P. On the theory of reduction of positive definite quadratic forms. Nonnormality of the partitions of the positivity cone into the Minkowski ($n \geq 7$) and the Barnes-Cohn ($n = 4$) reduction domain. (Russian) 88d:11063
- Umarov, M. Kh. See Ryshkov, S. S., 88a:11061

Items secondarily classified 11H55

- Cook, Roger J. (with Raghavan, Srinivasacharya) Small independent zeros of quadratic forms. 88f:11025
- Major, Zoltan Centering of lattices. (Russian) 88a:52018
- Centerings of lattices with denominator 2, when $n \leq 10$. (Russian) 88a:52019
- Raghavan, Srinivasacharya See Cook, Roger J., 88f:11025
- Ryshkov, S. S. (with Umarov, M. Kh.) The structure of the finite sides of the polyhedron $\mu_n(m)$ for $n \leq 4$. (Russian) 88k:52010
- Umarov, M. Kh. See Ryshkov, S. S., 88k:52010
- Vallée, Brigitte Algorithmique dans les réseaux de petite dimension: un point de vue affine sur la recherche des minima. [Algorithmics in small-dimensional lattices: an affine point of view of the study of minima] 88h:11097

11H60 Mean value and transfer theorems

- Mahler, Kurt A new transfer principle in the geometry of numbers. 88e:11054

11H99 None of the above, but in this section

Items secondarily classified 11H99

- Bier, Thomas Totient numbers for cyclic group rings. 88k:20017
- Ferguson, Helaman R. P. A noninductive $GL(n, \mathbb{Z})$ algorithm that constructs integral linear relations for n \mathbb{Z} -linearly dependent real numbers. 88k:11096
- Jarratt, J. D. (with Seidel, J. J.) A note on the equivalence of the problem of embedding a regular N -simplex in the N -dimensional hypercubic lattice to a certain integral matrix completion problem. 88b:15016
- Meshkat, Siavash N. (with Sakkas, Constantine M.) Voronoi diagram for multiply-connected polygonal domains. II. Implementation and application. (Not in MR)
- Nackman, Lee R. See Srinivasan, Vijay, (Not in MR)
- Sakkas, Constantine M. See Meshkat, Siavash N., (Not in MR)
- Seidel, J. J. See Jarratt, J. D., 88b:15016
- Srinivasan, Vijay (with Nackman, Lee R.) Voronoi diagram for multiply-connected polygonal domains. I. Algorithm. (Not in MR)

11Jxx Diophantine approximation, transcendental number theory [See also 11K60.]

- (Shidlovskii, A. B.) See Diophantine approximations, 88k:11041
- (Wüstholz, G.) See Diophantine approximation and transcendence theory, 88j:11036

Unauthored items

- Bonn ★ Diophantine approximation and transcendence theory. 88j:11036
- Diophantine approximation and transcendence theory ★ Diophantine approximation and transcendence theory. 88j:11036
- Diophantine approximations ★ Диофантовы приближения. Часть II. (Russian) [Diophantine approximations. Part II] 88k:11041
- Lecture Notes in Mathematics ★ Diophantine approximation and transcendence theory. 88j:11036
- Seminar:

- Number theory ★ Diophantine approximation and transcendence theory. 88j:11036

Symposium:

- Transcendental numbers and related topics ★ Transcendental numbers and related topics. 88i:11042
- Transcendental numbers and related topics ★ Transcendental numbers and related topics. 88i:11042

11J04 Homogeneous approximation to one number

- Nowak, Werner Georg Bemerkungen über Fordkugeln. [Remarks on Ford spheres] 88e:11055
- Popov, A. Yu. Approximations of certain powers of the number e . (Russian) 88b:11039
- Rockett, A. (with Szűs, Peter) A localization theorem in the theory of Diophantine approximation and an application to Pell's equation. 88k:11042
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- Cassou-Nogues, Pierrette Valeurs aux entiers négatifs des séries de Dirichlet associées à un polynôme. III. [Values at negative integers of the Dirichlet series associated with a polynomial. III] 88b:11056
- Dimitrov, M. M. Note on: "A class of modified ζ and L -functions" [Pacific J. Math. 74 (1978), no. 2, 357-364; MR 58 #21970] by E. Grosswald and F. J. Schnitzer. 88a:11083
- (Grosswald, E.) See Dimitrov, M. M., 88a:11083
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- Rhin, Georges See Levesque, Claude, **88b:11072**
- Shapiro, Daniel B. (with Markanda, Raj K.; Brown, Ezra) Some Euclidean properties for real quadratic fields. **88j:11066**
- Shen, Ming Gang Determination of all positive integers p for which $n^2 - n + p$ is prime for every n with $1 \leq n < p$. (Chinese) (Not in MR)
- Shlyifer, A. Z. Torsion-free modules with finite automorphism groups over rings of algebraic numbers. (Russian) **88i:20003**
- Sun, Qi A class of Diophantine equations over quadratic fields $\mathbb{Q}(\sqrt{D})$. (Chinese. English summary) **88a:11027**
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- Gerth, Frank, III Densities for 3-class ranks of pure cubic fields. **88a:11106**
- Imura, K. Principal factors in a pure cubic field and its unramified cyclic cubic extensions. **88e:11108**
- Körmendi, S. Canonical number systems in $\mathbb{Q}(\sqrt[3]{2})$. **88b:11076**
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- Nakahara, Toru On the minimum index of a cyclic quartic field. **88i:11075**
- van der Ploeg, C. E. Duality in nonnormal quartic fields. **88j:11064**
- Washington, Lawrence C. Class numbers of the simplest cubic fields. **88a:11107**
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- Zhang, Xian Ke Congruences of class numbers of general cubic cyclic number fields. (Chinese. English summary) **88i:11076**

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- Hardy, Kenneth (with Hudson, Richard H.; Richman, David Ross; Williams, Kenneth S.; Holtz, N. M.) Calculation of the class numbers of imaginary cyclic quartic fields. **88m:11112**
- Holtz, N. M. See Hardy, Kenneth; et al., **88m:11112**
- Hudson, Richard H. See Hardy, Kenneth; et al., **88m:11112**
- Kersten, I. (with Michaliček, Johannes) A characterization of Galois field extensions of degree 3. **88e:12006**
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- Richman, David Ross See Hardy, Kenneth; et al., **88m:11112**
- Williams, Kenneth S. Calculation of the class numbers of certain quartic fields. **88i:11081**
- The class number two problem for certain quartic fields. **88j:11076**
- See also Hardy, Kenneth; et al., **88m:11112**

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- Gerth, Frank, III Densities for ranks of certain parts of p -class groups. **88b:11067**
- Horie, Kuniaki See Kimura, Tatsuo, **88f:11103**
- Ichimura, Humio A note on a global version of the Coleman embedding. **88k:11075**
- Kimura, Tatsuo (with Horie, Kuniaki) On the Stickelberger ideal and the relative class number. **88f:11103**
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- Kučera, Radan On a certain subideal of the Stickelberger ideal of a cyclotomic field. **88a:11109**
- Uehara, Tsuyoshi A certain congruence relation between Jacobi sums and cyclotomic units. **88m:11088**

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- Bashmakov, M. I. Elliptic curves and units of number fields. (Russian) **88b:11031**
- Brinkhuis, Jan Normal integral bases and complex conjugation. **88d:11108**
- Charkani El Hassani, M. (with Gillard, R.) Unités elliptiques et groupes de classes. (English summary) [Elliptic units and class groups] **88f:11056**
- Gillard, R. See Charkani El Hassani, M., **88f:11056**
- Good, I. J. Skew circulants and the theory of numbers. **88d:11110a**
- An addendum: "Skew circulants and the theory of numbers." **88d:11110b**
- Jaulent, J.-F. ★ L'arithmétique des l -extensions. (French) [The arithmetic of l -extensions] **88j:11080**
- Katre, S. A. (with Rajwade, A. R.) On the Jacobsthal sum $\varphi_a(a)$ and the related sum $\psi_a(a)$. **88m:11066**
- Mermin, N. David (with Rokhsar, Daniel S.; Wright, David C.) Beware of 46-fold symmetry: the classification of two-dimensional quasicrystallographic lattices. **88h:52019**
- Metsänkylä, Tauno The index of irregularity of primes. **88f:11011**
- A simple method for estimating the Iwasawa λ -invariant. **88m:11091**
- Osada, Hiroyuki Note on the class-number of the maximal real subfield of a cyclotomic field. **88f:11106**
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- Schmidt, C.-G. Die Fermat-Kurve und ihre Jacobi-Mannigfaltigkeit. [The Fermat curve and its Jacobian] **88g:11113**
- Soulé, C. Éléments cyclotomiques en K -théorie. [Cyclotomic elements in K -theory] **88d:11116**
- Spearman, Blair K. (with Williams, Kenneth S.) A simple proof of Eisenstein's reciprocity law from Stickelberger's theorem. **88c:11007**

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- Imura, K. On the l -rank of ideal class groups of certain number fields. **88a:11110**
- Iyanaga, S. Construction of corps de nombres algébriques avec les groupes des classes d'idéaux de types donnés. [Construction of algebraic number fields with ideal class groups of given types] **88c:11060**
- Kaneko, Masanobu On conjugacy classes of the pro- l braid group of degree 2. **88a:11111**
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- Amara, Hédi Groupe des classes et unités fondamentales de la 4-extension non ramifiée de $\mathbb{Q}(\sqrt{-p})$ avec p premier et $p \equiv 1 \pmod{8}$. [Class group and fundamental units of the unramified 4-extension of $\mathbb{Q}(\sqrt{-p})$, with p prime and $p \equiv 1 \pmod{8}$] **88j:11069**
- Cassou-Nogues, Ph. (with Taylor, M. J.) ★ Elliptic functions and rings of integers. **88g:11082**
- (with Taylor, M. J.) Fonctions elliptiques et génération d'anneaux d'entiers. [Elliptic functions and the generation of rings of integers] **88g:11083**
- Cougnard, Jean Extensions diédrales de degré $2l$ (l premier ≥ 5) contenant un corps quadratique imaginaire euclidien et ordres monogènes. [Dihedral extensions of degree $2l$ (l prime ≥ 5) containing a Euclidean imaginary quadratic field and monogenic orders] **88j:11078**
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- Cougnard, Jean Monogénéité de l'anneau des entiers des extensions cycliques imaginaires de degré $2l$ (l premier ≥ 5). [Monogeneity of the integral ring of imaginary cyclic extensions of degree $2l$ (l prime ≥ 5)] **88h:11085**
- Gras, Georges Détermination numérique du groupe d'Artin des extensions cycliques de \mathbb{Q} à ramification donnée (programme FORTRAN IV-GALCYCL). [Numerical determination of the Artin group of cyclic extensions of \mathbb{Q} with given ramification (FORTRAN IV-GALCYCL program)] **88h:11082**
- Gras, Marie-Nicole Familles d'unités dans les extensions cycliques réelles de degré 6 de \mathbb{Q} . [Families of units in real cyclic extensions of degree 6 of \mathbb{Q}] **88k:11078**
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- Maus, Eckart Computation of integral bases in certain S_n extensions of \mathbb{Q} . **88m:11094**
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11R29 Class numbers, class groups, discriminants

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- Le, Mao Hua Divisibility of the class numbers of a class of imaginary quadratic fields. (Chinese) (Not in MR)
- Levesque, Claude (with Rhin, Georges) A few classes of periodic continued fractions. 88b:11072
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- Scarowsky, Manny (with Boyarsky, Abraham) On the computation of the class numbers of some cubic fields. 88a:11117
- Williams, Hugh Cowie See Buchmann, Johannes, 88m:11093
- Williams, Kenneth S. Calculation of the class numbers of certain quartic fields. 88i:11081

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11Y50 Computer solution of Diophantine equations

- de Weger, B. M. M. Solving exponential Diophantine equations using lattice basis reduction algorithms. 88k:11097

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- Ferguson, Helaman R. P. A noninductive $GL(n, \mathbb{Z})$ algorithm that constructs integral linear relations for n \mathbb{Z} -linearly dependent real numbers. 88b:11096
- Folz, H. G. (with Zimmer, H. G.) What is the rank of the Demjanenko matrix? 88k:11038
- Zimmer, H. G. See Folz, H. G., 88k:11038

11Y55 Calculation of integer sequences

- Buell, Duncan A. Integer squares with constant second difference. 88j:11090
- Gries, David (with Pascoletti, Adriano; Sbriz, Luigi) Horner's rule and the computation of linear recurrences. 88m:11113
- Hansel, G. Une démonstration simple du théorème de Skolem-Mahler-Lech. (English summary) [A simple proof of the Skolem-Mahler-Lech theorem] 88j:11091
- Li, Feng Lin Determination of the multipliers of a multiplicative congruential sequence with maximum period for a fixed modulus. (Chinese. English summary) 88a:11136
- Pascoletti, Adriano See Gries, David; et al., 88m:11113
- Ruza, Imre Z. (with Tuza, Zs.) Computing n with a few number of additions. 88f:11122
- Sbriz, Luigi See Gries, David; et al., 88m:11113
- Tuza, Zs. See Ruza, Imre Z., 88f:11122

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- Allouche, Jean-Paul Arithmétique et automates finis. (English summary) [Arithmetic and finite automata] 88d:11066
- Brigham, Robert C. See Dutton, Ronald D., 88d:05006
- Carra Ferro, Giuseppe Some upper bounds for the multiplicity of an autoreduced subset of \mathbb{N}^m and their applications. 88e:13004
- Dutton, Ronald D. (with Brigham, Robert C.) Computationally efficient bounds for the Catalan numbers. 88d:05006
- Hart, Sergiu (with Sharir, Micha) Nonlinearity of Davenport-Schinzel sequences and of generalized path compression schemes. 88f:05004
- Mayer, Daniel C. Sharp bounds for the partition function of integer sequences. 88i:11068
- Sharir, Micha See Hart, Sergiu, 88f:05004

11Y60 Evaluation of constants

- Bailey, David H. The computation of π to 29,360,000 decimal digits using Borweins' quartically convergent algorithm. 88m:11114

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- Bailey, David H. Numerical results on the transcendence of constants involving π, e , and Euler's constant. 88m:11056
- Gramain, François Corrigendum: "Computing an arithmetic constant related to the ring of Gaussian integers" [Math. Comp. 44 (1985), no. 169, 241-250; MR 87a:11028] by Gramain and M. Weber. 88a:11034
- Kannan, Ravindran (with McGeoch, Lyle A.) Basis reduction and evidence for transcendence of certain numbers. 88g:11038
- McGeoch, Lyle A. See Kannan, Ravindran, 88g:11038
- (Weber, Michel Leon) See Gramain, François, 88a:11034

11Y65 Continued fraction calculations**Items secondarily classified 11Y65**

- Buchmann, Johannes ★ Generalized continued fractions and number theoretic computations. 88j:11070
- Ko, Ker-I On the continued fraction representation of computable real numbers. 88j:03042a
- Corrigenda: "On the continued fraction representation of computable real numbers". 88j:03042b

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11Y70 Values of arithmetic functions; tables**Items secondarily classified 11Y70**

- Abouzahra, M. (with Lewin, L.) The polylogarithm in the field of two irreducible quintics. 88b:33023
- Badea, C. On a stronger Bertrand's postulate. 88j:11005
- Lagarias, J. C. (with Odlyzko, Andrew M.) Computing $\pi(x)$: an analytic method. 88k:11095
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- Odlyzko, Andrew M. See Lagarias, J. C., 88k:11095

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- Creutzburg, R. Zahlentheoretische Transformationen und ihre Anwendungen. [Number-theoretical transformations and their applications] 88j:11092

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- Adleman, Leonard M. See Estes, Dennis R.; et al., 88a:94024
- Averbuch, Amir (with Winograd, Shmuel; Galil, Zvi) Classification of all the minimal bilinear algorithms for computing the coefficients of the product of two polynomials modulo a polynomial. 88b:68095
- Estes, Dennis R. (with Adleman, Leonard M.; Kompella, Kireeti; McCurley, Kevin S.; Miller, Gary Lee) Breaking the Ong-Schnorr-Shamir signature scheme for quadratic number fields. 88a:94024
- Galil, Zvi See Averbuch, Amir; et al., 88b:68095
- Kompella, Kireeti See Estes, Dennis R.; et al., 88a:94024
- van Leijenhorst, D. C. A note on the formula size of the "mod k " functions. 88f:68048
- McCurley, Kevin S. See Estes, Dennis R.; et al., 88a:94024
- Miller, Gary Lee See Estes, Dennis R.; et al., 88a:94024
- Mullen, Gary L. (with White, David) A polynomial representation for logarithms in $GF(q)$. 88e:11124
- Newman, Morris (with Thompson, Robert C.) Numerical values of Goldberg's coefficients in the series for $\log(e^x e^y)$. 88i:17007
- Thompson, Robert C. See Newman, Morris, 88i:17007
- White, David See Mullen, Gary L., 88e:11124
- Winograd, Shmuel See Averbuch, Amir; et al., 88b:68095

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12-01 Elementary exposition; textbooks

- Apikyan, S. V. See Mutafyan, A. Z., 88c:12001
 Mutafyan, A. Z. (with Apikyan, S. V.) ★ Galoway tesowt'yown. (Armenian) [Galois theory] 88c:12001

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- Pontryagin, L. S. ★ Обобщения чисел. (Russian) [Generalizations of numbers] 88c:00005

12-03 Historical (must also be assigned at least one classification number from Section 01)

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- Lal, Sunder Algebraic equations: from Cardan to Galois. I. 88a:01003a
 Algebraic equations: from Cardan to Galois. II. 88a:01003b

12-04 Explicit machine computation and programs (not the theory of computation or programming)

- Bini, D. (with Pan, Victor Ya.) Fast parallel algorithms for polynomial division over an arbitrary field of constants. 88m:12001
 Girstmair, Kurt On invariant polynomials and their application in field theory. 88i:12001
 Kaltofen, Erich Sparse Hensel lifting. 88b:12001
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- Averbuch, Amir (with Winograd, Shmuel; Galil, Zvi) Classification of all the minimal bilinear algorithms for computing the coefficients of the product of two polynomials modulo a polynomial. 88b:68095
 Bahai, L. On Lovász' lattice reduction and the nearest lattice point problem. 88a:68049
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 Böggess, R. Der Algorithmus von Ford/Zassenhaus zur Berechnung von Ganzheitsbasen in Polynom-Algebren. [The Ford-Zassenhaus algorithm for the computation of integral bases in polynomial algebras] 88k:11096
 Buchberger, B. Gröbner bases: a method in symbolic mathematics. (See 88k:00025)
 Chistov, A. L. Algorithms of polynomial complexity for the factorization of polynomials with rational coefficients or with coefficients from a finite field. (Russian) 88i:11132
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 von zur Gathen, Joachim Representations and parallel computations for rational functions. 88f:68055
 Giusti, Marc Théorie combinatoire de la dimension d'une variété algébrique. (English summary) [Combinatorial theory of the dimension of an algebraic variety] 88f:68066
 Heintz, Joos On polynomials with symmetric Galois group which are easy to compute. 88d:12003
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 Johnson, David Stifter The NP-completeness column: an ongoing guide. 88d:68021
 Lewin, L. (with Rost, E.) Polylogarithmic functional equations: a new category of results developed with the help of computer algebra (MACSYMA). 88k:39012
 Lickteig, Thomas The computational complexity of division in quadratic extension fields. 88f:68058
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- Pallaschke, Diethard (with Reicht, Peter; Urbański, R.) On locally-Lipschitz quasidifferentiable functions in Banach-spaces. 88c:46051
 Reicht, Peter See Pallaschke, Diethard; et al., 88c:46051
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- Han, Xia Min Obtaining highest common factors by using elementary transformations. (Chinese) 88b:12002
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Items secondarily classified 12D05

- Risler, Jean-Jacques Complexité et géométrie réelle (d'après A. Khovansky). [Complexity and real geometry (following A. Khovanskii)] 88c:14033

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

- Balyuchev, P. See Nachev, Nako A., 88k:12002
 Langevin, Michel Approche géométrique du problème de Favard. (English summary) [A geometric approach to Favard's problem] 88e:12001
 Nachev, Nako A. (with Balyuchev, P.) A method for the algebraic solution of an equation of fourth degree. (Bulgarian. English and Russian summaries) 88k:12002
 Pragacz, Piotr A note on the elimination theory. 88m:12003
 Yagzhev, A. V. Finiteness of the set of conservative polynomials of a given degree. (Russian) 88g:12001

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- Bartlett, A. C. (with Hollot, C. V.; Lin, Huang) Root locations of an entire polytope of polynomials: it suffices to check the edges. 88m:93033
 Demmel, James Weldon The geometry of ill-conditioning. 88b:65091
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 Johnson, Charles R. Interlacing polynomials. 88b:15049
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 Komara, Imrich Bounds of the roots of the real polynomial. (Russian and Czech summaries) 88e:26007
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 Zaher, Neyamat (with Khan, Aijaz A.) Some theorems on generalized polars with arbitrary weight. 88j:30014

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- Basarab, Serban A. Transfer principles for pseudo real closed e -fold ordered fields. 88i:12002
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 Charnow, A. (with Charnow, E.) Fields for which the principal axis theorem is valid. 88c:12001a
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 Schilling, H.-W. Sums of 2^n th powers in real function fields. 88g:12003
 Schwartz, Niels Chain signatures and higher level Witt rings. 88k:12005

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- Alling, Norman L. An isomorphism theorem for algebraic function fields of genus one over real-closed fields. 88m:14033
 Alonso, M. E. (with Andradás, C.) Real spectra of complete local rings. 88f:14022
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 Becker, Eberhard On the real spectrum of a ring and its application to semialgebraic geometry. 88g:14022
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 Brumfiel, G. W. Quotient spaces for semialgebraic equivalence relations. 88i:14015
 van den Dries, Lou (with Ribenboim, P.) An application of Tarski's principle to absolute Galois groups of function fields. 88g:12005
 Ershov, Yu. L. Realizable i -groups. (Russian) 88g:12013
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 Gamboa, J. M. A note on hyperplane sections of real algebraic sets. 88m:14016
 Nakamura, Yoshio Sur les extensions relativement pythagoriciennes. [On relatively Pythagorean extensions] 88d:11037
 Ribenboim, P. See van den Dries, Lou, 88g:12005

- Richman, David Ross Addendum to: "Matrices as sums of squares: a conjecture of Griffin and Krusemeyer" [Linear and Multilinear Algebra 17 (1985), no. 3, 289-294; MR 87a:15022]. 88e:15007
- Silhol, R. Cohomologie de Galois et cohomologie des variétés algébriques réelles; applications aux surfaces rationnelles. (English summary) [Galois cohomology and cohomology of real algebraic varieties; applications to rational surfaces] 88j:14030
- Vasallo, Luis Miguel Pardo The polynomial separation problem in $\text{Spec}(A)$. 88c:14035

12D99 None of the above, but in this section

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- Elezović, N. On the minimal polynomial of a resolvent. 88a:15007

12Exx General field theory

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- Castro Chadid, Iván Some criteria for determining polynomials not solvable by radicals. (Spanish) (Not in MR)
- Gentili, Graziano (with Struppa, Daniele) Minimal degree solutions of polynomial equations. 88k:12006
- Hoyden-Siedersleben, Gudrun (with Matzat, B. Heinrich) Realisierung sporadischer einfacher Gruppen als Galoisgruppen über Kreisteilungskörpern. [Realization of sporadic simple groups as Galois groups over cyclotomic fields] 88d:12001
- Matzat, B. Heinrich See Hoyden-Siedersleben, Gudrun, 88d:12001
- Moreno Bianco, Eduardo A method for solving some equations of the fifth degree. (Spanish) (Not in MR)
- Nachev, Nako A. Invariants of separable binomial extensions. (Russian) 88f:12004
- Panaitopol, L. (with Stănescu, D.) A class of irreducible polynomials. 88d:12002 (with Stănescu, D.) A resultant condition for the irreducibility of the polynomials. 88b:12003
- Petrichovich, V. M. (with Prokip, V. M.) Factorization of polynomial matrices over an arbitrary field. (Russian) 88c:12003
- Prokip, V. M. See Petrichovich, V. M., 88c:12003
- Qureshi, Muhammad Asif Localized normalization theorems. 88h:12001
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- Vila, Núria On Hilbert's irreducibility theorem. (Catalan) 88c:12004
- Wang, Yu A method of calculating the Galois group of an irreducible polynomial of degree 5 in $\mathbb{Q}[x]$. (Chinese. English summary) 88i:12002

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- Domzy, Bart See Cabay, Stanley, 88j:65082
- Glocki, W. Separability of the characteristic polynomial. 88g:15022
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- Lüneburg, Heinz ★ On the rational normal form of endomorphisms. 88j:68075
- Nowicki, Andrzej (with Zuchowski, Ryszard) Derivations and polynomial rings. (Polish summary) 88c:13006
- Rowland, John H. (with Cowles, John R.) Small sample algorithms for the identification of polynomials. 88b:68036
- Simpson, Stephen G. (with Smith, Rick L.) Factorization of polynomials and Σ_2^0 induction. 88b:03093
- Stodowy, P. Das Ikosaeder und die Gleichungen fünften Grades. [The icosahedron and quintic equations] 88i:01056
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- Stepanov, S. A. On the number of polynomials of a given form that are irreducible over a finite field. (Russian) 88j:11085
- Tung, Shih-Ping Definability in number fields. 88h:03046
- Wu, Wen Jun A mechanization method of geometry. I. Elementary geometry. (Chinese summary) 88b:03023
- Xuan, Xiao Hua The computational complexity of the resultant method for solving polynomial equations. 88i:65071
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- Brawley, J. V. (with Schnibben, George E.) Polynomials which permute the matrices over a field. 88c:12005
- Heintz, Joos On polynomials with symmetric Galois group which are easy to compute. 88d:12003
- McKay, John (with Stauduhar, Richard) Coda to a theorem of Schur. 88i:12003
- Schnibben, George E. See Brawley, J. V., 88c:12005
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- Osada, Hiroyuki The Galois groups of the polynomials $X^n + aX' + b$. 88c:11059

12E12 Equations

- Richman, David Ross On the computation of minimal polynomials. 88d:12004

12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45 16A39.]

- Kang, Ming Chang p -algebras over an algebraic function field over a perfect field. 88a:12002
- Mollin, R. A. Subfields of simple algebras. (Not in MR)
- van Praag, Paul Remarques sur l'élimination linéaire dans les corps gauches et le déterminant de Dieudonné. [Remarks on linear elimination in division rings and the Dieudonné determinant] 88d:12005
- Tignol, J.-P. On the corestriction of central simple algebras. 88f:12005
- Voronovich, I. Splitting fields of central simple algebras over a field of rational functions. (Russian. English summary) 88b:12004

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- Chipchakov, Ivan D. On the structure of algebraic associative division algebras over solvable and nilpotent fields. 88b:16034
- Colliot-Thélène, Jean-Louis (with Sansuc, Jean-Jacques) Principal homogeneous spaces under flasque tori: applications. 88j:14059
- Felt, Walter (with Vojta, Paul) Examples of some Q -admissible groups. 88g:12006
- Kaskevič, V. I. (with Yanchevskii, V. I.) The structure of the general linear group and the special linear group over Henselian discretely valued Azumaya algebras. (Russian. English summary) 88k:16024
- Leroy, André Dérivations algébriques sur les corps gauches. [Algebraic derivations in division rings] 88g:16016
- Licht, Bernd Über zerfallende Involutionen. [On decomposing involutions] 88b:20012
- MacHale, D. Wedderburn's theorem revisited. 88a:13023
- Petro, John Real division algebras of dimension > 1 contain C . 88d:17002
- Roux, Bernard Structure des corps gauches locaux dont le corps résiduel est commutatif parfait de caractéristique $p > 0$. (English summary) [Structure of the local skew fields with perfect residue field of characteristic $p > 0$] 88i:16021
- Saltman, David J. Galois groups of order p^3 . 88k:12008
- Sansuc, Jean-Jacques See Colliot-Thélène, Jean-Louis, 88j:14059
- Schröder, Martin Linearly ordered proper skewfields with rank 1 of natural valuation. 88i:12008
- Suslin, A. A. (with Yufryakov, A. V.) The K -theory of local division algebras. (Russian) 88a:11127
- Tignol, J.-P. Algèbres indécomposables d'exposant premier. [Indecomposable algebras with prime exponents] 88h:16028 (with Wadsworth, Adrian R.) Totally ramified valuations on finite-dimensional division algebras. 88j:16025
- Vojta, Paul See Felt, Walter, 88g:12006
- Wadsworth, Adrian R. Merkurjev's elementary proof of Merkurjev's theorem. 88b:11078 See also Tignol, J.-P., 88j:16025
- Yanchevskii, V. I. See Kaskevič, V. I., 88k:16024
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12E20 Finite fields {For number-theoretic questions, see 11Txx.}

- Dai, Zong Duo Polynomial representations of a class of sequences. (Chinese) (Not in MR)
- Niederreiter, Harald Rational functions with partial quotients of small degree in their continued fraction expansion. 88b:12002

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- Blessenohl, D. (with Johnsen, K.) Ein Beweis für die Existenz von Normalbasen in endlichen Körpern. [A proof for the existence of normal bases in finite fields] 88d:11125
- Johnsen, K. See Blessenohl, D., 88d:11125
- Kvashennikov, V. V. (with Yakovlev, V. G.) A remark on the solution of quadratic equations over Galois fields. (Russian) 88m:11107
- Lenstra, H. W., Jr. (with Schoof, R. J.) Primitive normal bases for finite fields. 88c:11076
- MacHale, D. Wedderburn's theorem revisited. 88a:13023
- Moreno, Oscar Discriminants and the irreducibility of a class of polynomials. 88j:11091
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- Beard, Jacob T. B., Jr. Matrix fields, regular and irregular: a complete fundamental characterization. 88i:12004
- Nagata, Masayoshi A conjecture of O'Carroll and Qureshi on tensor products of fields. 88d:12006

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- Beth, Thomas On the arithmetics of Galois fields and the like. Algebraic questions arising in the design of secure communication systems. 88c:11127
- Jang, Chang Lim Rings with equation $x^n = x$. (Korean summary) 88j:16040
- Schiffels, Gerhard Zur Stetigkeit der Wurzeln der algebraischen Gleichungen über topologischen Integritätsbereichen. [On the continuity of the roots of algebraic equations over topological integral domains] 88i:12009

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- Merzlyakov, Yu. I. ★ Рациональные группы. (Russian) [Rational groups] 88f:20004

12F05 Algebraic extensions

- Chipchakov, Ivan D. Maximal subfields and algebraic properties of fields. 88a:12003
 Gilmer, Robert (with Heinzer, William J.) Jónsson ω -generated algebraic field extensions. 88g:12004
 Gröter, Detlef Halbordnungen und maximale Teilkörper in geordneten algebraisch abgeschlossenen Körpern. (English summary) [Half orderings and maximal subfields in algebraically closed fields not containing a given element] 88i:12005
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- Boja, N. (with Dăianu, Dan; Hatvani, Cs.) On the Boolean algebra structure of a prime extension of fields. (Romanian summary) 88d:06020
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 Hatvani, Cs. See Boja, N.; et al., 88d:06020
 Tsuji, Kayoko Differential closure of differential field of positive characteristic. 88b:12012

12F10 Separable extensions, Galois theory

- Blessenohl, D. (with Johnsen, K.) Eine Verschärfung des Satzes von der Normalbasis. [A sharpening of the normal basis theorem] 88a:12004
 Bruen, Alden A. (with Jensen, Christian U.; Yui, Noriko) Polynomials with Frobenius groups of prime degree as Galois groups. II. 88i:12006
 Chatzidakis, Zosé Some properties of the absolute Galois group of a Hilbertian field. 88j:12005
 van den Dries, Lou (with Ribenboim, P.) An application of Tarski's principle to absolute Galois groups of function fields. 88g:12005
 Feit, Walter (with Vojta, Paul) Examples of some Q -admissible groups. 88g:12006
 Garling, D. J. H. \star A course in Galois theory. 88i:12007
 Gow, R. Construction of some wreath products as Galois groups of normal real extensions of the rationals. 88a:12005
 Greither, Cornelius (with Harrison, D. K.) A Galois correspondence for radical extensions of fields. 88b:12006
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 Halja, Mowaffaq Rationality of finite groups of monomial automorphisms of $k(x, y)$. 88j:12002
 Halter-Koch, Franz Über Konstruktionen mit Zirkel, Lineal und Winkelteilungen. [On constructions with compass, ruler and division of angles] 88m:12004
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12F99 None of the above, but in this section

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12G05 Galois cohomology [See also 11R34, 11S25, 13A20, 16A16.]

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12Hxx Differential and difference algebra

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12H25 p -adic differential equations [See also 11S80, 14G20, 34Gxx.]

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Genre des corps de fonctions valués après Deuring, Lamprecht et Mathieu. [Genus of valued function fields following Deuring, Lamprecht and Mathieu] 88e:11117

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- Holland, Samuel S., Jr. Baer ordered \ast -fields of the first kind. 88g:12012
- Kijima, Daiji (with Nishi, Mico) Maximal ordered fields of rank n . 88h:12004
- Matsuyama, Hiroshi Some results on ordered fields. 88h:12013
- Mináč, Ján Stability and cohomological dimension. 88h:12005
- Nishi, Mico See Kijima, Daiji, 88h:12004
- Schröder, Martin Linearly ordered proper skewfields with rank 1 of natural valuation. 88i:12008
- Schwartz, Niels Lattice-ordered fields. 88f:12013

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- Gondard, Danielle Théorie du premier ordre des corps chainables et des corps chaîne-clos. (English summary) [First-order axioms for fields with chains and for chain-closed fields] 88g:03051
- Gröger, Detlef Halbordnungen und maximale Teilkörper in gelochten algebraisch-abgeschlossenen Körpern. (English summary) [Half orderings and maximal subfields in algebraically closed fields not containing a given element] 88i:12005
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- Valente, K. G. The p -primes of a commutative ring. 88f:12012
- Wolter, Helmut On the model theory of exponential fields (survey). 88a:03082

12J20 General valuation theory

- Popescu, Dorin Algebraic extensions of valued fields. 88k:12010

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- Dauvs, John Mathiak valuations. 88f:16020
- Dickmann, M. A. Elimination of quantifiers for ordered valuation rings. 88b:03045
- Green, B. W. On the immediate extensions of a valued field. 88d:12010
- Mines, Ray (with Richman, Fred) Archimedean valuations. 88d:03114
- Rema, P. S. (with Saroja, S.) On Archimedean valuations. 88b:11076
- Richman, Fred See Mines, Ray, 88d:03114
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12J25 Non-Archimedean valued fields [See also 26E30, 30G05, 32D25, 46P05.]

Items secondarily classified 12J25

- Bézivin, Jean-Paul Une propriété arithmétique de certains opérateurs différentiels. (English summary) [An arithmetic property of certain differential operators] 88i:11067
- Roux, Bernard Structure des corps gauches locaux dont le corps résiduel est commutatif parfait de caractéristique $p > 0$. (English summary) [Structure of the local skew fields with perfect residue field of characteristic $p > 0$] 88i:16021

12J27 Krasner-Tate algebras [See mainly 32E27, also 46P05.]

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- Escassut, Alain Hensel factorization for series with analytic coefficients. 88m:30100

12J99 None of the above, but in this section

- Ershov, Yu. L. Realizable i -groups. (Russian) 88g:12013
- Schiffels, Gerhard Zur Stetigkeit der Wurzeln der algebraischen Gleichungen über topologischen Integrationsbereichen. [On the continuity of the roots of algebraic equations over topological integral domains] 88i:12009

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- Schinke, Johann-Heinrich See Bröcker, L., 88c:14031

12Kxx Generalizations

12K05 Near-fields [See also 16A76.]

- Grundhöfer, Theo Transitive linear groups and nearfields with solubility conditions. 88a:12009
- Zassenhaus, H. On Frobenius groups. II. Universal completion of nearfields of finite degree over a field of reference. 88i:12010

Items secondarily classified 12K05

- Behboud, Ali Ultraprodukte von Fastkörpern als Restklassenkonstruktionen. [Ultraproductions of near-fields as residue class constructions] 88g:03050
- Dalé, Vité On a decomposition of near-rings in a subdirect sum of near-fields. 88j:16045
- Felgner, Ulrich Pseudofinite near-fields. 88h:03042
- Fuchs, Peter (with Maxson, C. J.; Smith, Kirby C.) Centralizer near-rings determined by unions of groups. 88j:16046
- Grundhöfer, Theo On p -adic nearfields. 88c:16049
- Maxson, C. J. See Fuchs, Peter; et al., 88j:16046
- Smith, Kirby C. See Fuchs, Peter; et al., 88j:16046
- Zemmer, J. L. An extension theorem and a new construction of Dickson near-fields. 88b:16068

12K99 None of the above, but in this section

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- Grundhöfer, Theo (with Strambach, Karl) Die affinen Projektivitätengruppen der lokalkompakten zusammenhängenden Translationsebenen. [The affine projectivity groups of the locally compact connected translation planes] 88b:51020
- Strambach, Karl See Grundhöfer, Theo, 88b:51020

12Lxx Connections with logic

12L05 Decidability

- L'vov, M. S. Invariant inequalities in programs interpreted on an ordered field. (Russian. English summary) 88c:12007
- Macintyre, Angus Effective determination of the zeros of p -adic exponential functions. 88f:12014

Items secondarily classified 12L05

- Grigorev, D. Yu. Complexity of decision for the first-order theory of algebraically closed fields. (Russian) 88d:03063
- Phelidas, Thanases An undecidability result for power series rings of positive characteristic. 88b:03065
- Wolter, Helmut On the model theory of exponential fields (survey). 88a:03082

12L10 Ultraproducts

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- Fein, B. (with Hales, A.; Schacher, M.) Brauer groups are not characterized by Ulm invariants. 88d:12009
- Hales, A. See Fein, B.; et al., 88d:12009
- Schacher, M. See Fein, B.; et al., 88d:12009

12L12 Model theory

- Boffa, M. Une introduction aux corps différentiellement clos. [An introduction to differentially closed fields] 88d:12011
- Robinson, Edmund The geometric theory of p -adic fields. 88k:12011
- Videla, Carlos R. Elementarily equivalent fields with inequivalent perfect closures. 88a:12010

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- Basarab, Sorban A. A Nullstellensatz over some Henselian valued fields. 88c:12012
- Dickmann, M. A. Elimination of quantifiers for ordered valuation rings. 88b:03045
- Duret, Jean-Louis Sur la théorie élémentaire des corps de fonctions. [On the elementary theory of function fields] 88d:03066
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- Macintyre, Angus Twenty years of p -adic model theory. 88b:03053
- Prestel, Alexander \star Einführung in die Mathematische Logik und Modelltheorie. (German) [Introduction to mathematical logic and model theory] 88i:03003
- Tung, Shih-Ping Definability in number fields. 88h:03046

12L15 Nonstandard arithmetic [See also 03H15.]

Items secondarily classified 12L15

- Yasumoto, M. Hilbert irreducibility sequences and nonstandard arithmetic. 88g:11075

13-XX Commutative rings and algebras {For the noncommutative case, see 16-XX.}

13-01 Elementary exposition; textbooks

- Matsumura, Hideyuki \star Commutative ring theory. 88h:13001
- (Reid, Miles) See Matsumura, Hideyuki, 88h:13001
- Sharpe, David \star Rings and factorization. 88i:13001

Items secondarily classified 13-01

- Arnauts, Jean-Marie (with Fraysse, Henri) ★ Cours de mathématiques. I. (French) [Course in mathematics. I.] 88e:00001
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 Năstăsescu, Constantin (with Niță, C.; Vraciu, C.) ★ Bazele algebrei. Vol. I. (Romanian) [The foundations of algebra. Vol. I.] 88m:00007
 Niță, C. See Năstăsescu, Constantin; et al., 88m:00007
 Vraciu, C. See Năstăsescu, Constantin; et al., 88m:00007

13-02 Advanced exposition (research surveys, monographs, etc.)

- Matsumura, Hideyuki Fifteen years of commutative algebra (1971-85). 88e:13001

Items secondarily classified 13-02

- Kunz, Ernst ★ Kähler differentials. 88e:14025
 Stückrad, Jürgen (with Vogel, Wolfgang) ★ Buchsbaum rings and applications. 88h:13011a
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13-03 Historical (must also be assigned at least one classification number from Section 01)

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- Matsumura, Hideyuki Fifteen years of commutative algebra (1971-85). 88e:13001
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13-04 Explicit machine computation and programs (not the theory of computation or programming)

Items secondarily classified 13-04

- Bayer, David (with Stillman, Michael) A theorem on refining division orders by the reverse lexicographic order. 88k:13005
 Buchberger, B. Gröbner bases: a method in symbolic mathematics. (See 88k:00025)
 Maurras, Jean-François Complexité algébrique. (English summary) [Algebraic complexity] 88a:68056
 Möller, H. Michael (with Mora, Ferdinando) New constructive methods in classical ideal theory. 88c:13012
 Mora, Ferdinando See Möller, H. Michael, 88c:13012
 Stillman, Michael See Bayer, David, 88k:13005

13-06 Proceedings, conferences, etc.

Unauthored items

- Graded rings and filtrations on commutative rings ★ Graded rings and filtrations on commutative rings. (Japanese) 88i:13002
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 Graded rings and filtrations on commutative rings ★ Graded rings and filtrations on commutative rings. (Japanese) 88i:13002

13Axx General commutative ring theory

13A05 Divisibility

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Correspondence:

- de Sluse, René-François-Pascal, Blaise See Hara, Kokiti, 88f:01008b

14-04 Explicit machine computation and programs (not the theory of computation or programming)

Items secondarily classified 14-04

- Giusti, Marc Théorie combinatoire de la dimension d'une variété algébrique. (English summary) [Combinatorial theory of the dimension of an algebraic variety] 88f:68066
- Le Brigand, D. On computational complexity of some algebraic curves over finite fields. 88a:11134
- Roberts, Leslie G. The ideal generation conjecture for 28 points in P^3 . 88e:14008a
- Correction to: "The ideal generation conjecture for 28 points in P^3 ". 88e:14008b
- Wu, Wen Jun A constructive theory of differential algebraic geometry based on works of J. F. Ritt with particular applications to mechanical theorem-proving of differential geometries. 88g:03023

14-06 Proceedings, conferences, etc.

- (Arbarello, Enrico) See Geometry today, 88b:14001
- (Bloch, Spencer) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
- (Cattani, Eduardo) See Hodge theory, 88a:14003
- (Clemens, H.) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
- (Eisenbud, David) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
- (Fulton, William) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
- (Ghione, Franco) See Space curves, 88f:14002
- (Gieseker, David) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
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- (Guillén, F.) See Hodge theory, 88a:14003
- (Harris, Joseph Daniel) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
- (Hartshorne, R.) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
- (Kaplan, Aroldo G.) See Hodge theory, 88a:14003
- (Kurke, Herbert) See Proceedings: Conference on algebraic geometry, 88g:14002
- (Mori, Shigefumi) See Algebraic geometry, Bowdoin, 1985, 88j:14001 and 88j:14002
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- (Roczen, Marko) See Proceedings: Conference on algebraic geometry, 88g:14002
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- (Skopets, Z. A.) See Birational geometry of algebraic varieties, 88g:14001
- (Strickland, Elisabetta) See Geometry today, 88b:14001
- (Trautmann, G.) See Singularities, representation of algebras, and vector bundles, 88h:14001

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- Algebraic geometry, Bowdoin, 1985 ★ Algebraic geometry, Bowdoin, 1985, Part 1. 88j:14001
- ★ Algebraic geometry, Bowdoin, 1985, Part 2. 88j:14002
- Arcata, Calif. ★ Current trends in arithmetical algebraic geometry. 88c:14001
- Berlin ★ Proceedings of the conference on algebraic geometry. 88g:14002
- Birational geometry of algebraic varieties ★ Биразональная геометрия алгебраических многообразия. (Russian) [The birational geometry of algebraic varieties] 88g:14001
- Bombay ★ Vector bundles on algebraic varieties. 88b:14002
- Brunswick, Maine ★ Algebraic geometry, Bowdoin, 1985, Part 1. 88j:14001
- ★ Algebraic geometry, Bowdoin, 1985, Part 2. 88j:14002
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- Algebraic geometry ★ Algebraic geometry, Bowdoin, 1985, Part 1. 88j:14001
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 Singularities, representation of algebras, and vector bundles ★ Singularities, representation of algebras, and vector bundles. 88h:14001
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- (Aroca Hernández-Ros, José Manuel) See Algebraic geometry and applications, 88f:32002; 88f:32003 and 88f:32004
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14Axx Foundations

14A05 Relevant commutative algebra [See also 13-XX.]

- Laksav, Dan Radicals and Hilbert Nullstellensatz for not necessarily algebraically closed fields. 88m:14001

Items secondarily classified 14A05

- Kang, Ming Chang The biregular cancellation problem. 88i:13007

14A10 Varieties

- Boratyński, M. How many equations define an affine variety? 88a:14004
 Bulum, Alexandru Fields of definition of algebraic varieties in characteristic zero. 88d:14001

Items secondarily classified 14A10

- Ballico, Edoardo On the defining equations of subvarieties in P^n . (Italian summary) 88a:14052
 Bartosiewicz, Z. Rational systems and observation fields. 88m:93026

14A15 Schemes

- Cherenack, P. Extending schemes to a Cartesian closed category. 88b:14003
 Nesselmann, Dieter On equimultiple subschemes of a local scheme over a field of characteristic zero. 88c:14002
 Procesi Ciampi, Rita (with Rota, R.) Le spectre premier d'un hyperanneau multiplicatif. [The prime spectrum of a multiplicative hyperring] 88k:14001
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Items secondarily classified 14A15

- Constantinescu, Adrian Algebraization of schemes dominated by algebraic varieties. I. 88h:14049
 Picaret, Gabriel Submersion et descente. [Submersion and descent] 88m:14010
 Roberts, Leslie G. The Hilbert function of some reducible varieties. 88m:13004

14A20 Generalizations (algebraic spaces, motifs)

Items secondarily classified 14A20

- Bellinson, A. A. (with MacPherson, R.; Shekhtman, V. V.) Notes on motivic cohomology. 88f:14021
 Bröcker, L. (with Schinke, Johann-Heinrich) ★ On the L -adic spectrum. 88c:14031
 Cherenack, P. Fundamental groups of elliptic curves internal to locally ringed spaces. 88b:14012
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 Yuzvinsky, Sergey Cohen-Macaulay rings of sections. 88d:13039

14A99 None of the above, but in this section

- Gago Couso, Felipe ★ Smooth algebraic geometry. 88f:14003
 Procesi Ciampi, Rita (with Rota, R.) The hyperring spectrum. (See 88g:20004)
 Robinson, Edmund The p -adic spectrum. 88d:14002
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 Sweedler, M. Introduction to the algebraic theory of positive characteristic differential geometry. 88b:14004

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- Álgebra See Gago Couso, Felipe, 88f:14003

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- Alonso, M. E. (with Andradás, C.) Real spectra of complete local rings. 88f:14022
 Andradás, C. See Alonso, M. E., 88f:14022
 Bélair, Luc Spectres p -adiques en rang fini. (English summary) [p -adic spectra in finite p -rank] 88g:14020
 Cohn, P. M. Principles of noncommutative algebraic geometry. 88b:15001
 Constantinescu, Adrian Some analytic and topological interpretations of the finite generation of complex subalgebras. I. 88k:13015a
 Some analytic and topological interpretations of the finite generation of complex subalgebras. II. 88k:13015b
 Some analytic and topological interpretations of the finite generation of complex subalgebras. III. 88k:13016
 Dubuc, Eduardo J. Logical opens and real numbers in topoi. 88d:18003
 Nishimura, Hirokazu Some connections between Heyting valued set theory and algebraic geometry—prolegomena to intuitionistic algebraic geometry. 88k:03125
 Schmitt, Thomas ★ Regular sequences in Z_2 -graded commutative algebra. 88a:13012

14Bxx Local theory [See also 32Bxx.]

14B05 Singularities [See also 14E15, 32B30, 32C40, 58C27.]

- Boutot, Jean-François Singularités rationnelles et quotients par les groupes réductifs. [Rational singularities and quotients by reductive groups] 88a:14005
- Buchweitz, R.-O. (with Greuel, G.-M.; Schreyer, F.-O.) Cohen-Macaulay modules on hypersurface singularities. II. 88d:14005
- Costa, Antonio F. On the link of quasi-ordinary singularities. 88i:14001
- Cumino, Caterina (with Paxia, Giuseppe) Global branches and parametrization. (Italian. English summary) 88d:14003
- Tangent cones and analytic branches. 88b:14005
- Durfee, Alan H. Topological restrictions on the links of isolated complex singularities. (See 88a:32002)
- Fedder, Richard F-purity and rational singularity in graded complete intersection rings. 88h:14002
- Gonzalez-Sprinberg, G. (with Verdier, Jean-Louis) Structure multiplicative des modules réflexifs sur les points doubles rationnels. [Multiplicative structure of reflexive modules over rational double points] 88k:14002
- Greuel, G.-M. See Buchweitz, R.-O.; et al. 88d:14005
- Hayakawa, Takayuki (with Takeuchi, Kiyohiko) On canonical singularities of dimension three. 88j:14003
- Ishida, Masa-Nori (with Iwashita, Naoko) Canonical cyclic quotient singularities of dimension three. 88h:14003
- Iwashita, Naoko See Ishida, Masa-Nori. 88h:14003
- Knörrer, Horst Cohen-Macaulay modules on hypersurface singularities. 88e:14001
- Cohen-Macaulay modules on hypersurface singularities. I. 88d:14004
- Morales, Marcel Resolution of quasihomogeneous singularities and plurigenera. 88j:14004
- Paxia, Giuseppe See Cumino, Caterina. 88d:14003
- Risler, Jean-Jacques Un analogue local du théorème de Harnack. [A local analogue of Harnack's theorem] 88k:14003
- Saito, Kyoji A new relation among Cartan matrix and Coxeter matrix. 88i:14003
- Schreyer, F.-O. Finite and countable CM-representation type. 88j:14005
- See also Buchweitz, R.-O.; et al. 88d:14005
- Singh, Balwant A criterion for a point of a hypersurface to be good. 88f:14004
- Takeuchi, Kiyohiko See Hayakawa, Takayuki. 88j:14003
- Tsuchihashi, Hiroyasu Three-dimensional cusp singularities. 88h:14004
- Verdier, Jean-Louis See Gonzalez-Sprinberg, G. 88k:14002
- Villamayor, Orlando E., Jr. On powers of prime ideals and rational singularities. 88e:14002

Items secondarily classified 14B05

- Aleksandrov, A. G. The Milnor numbers of nonisolated Saito singularities. (Russian) 88e:32017
- Artin, M. Maximal orders of global dimension and Krull dimension two. 88e:16008a
- Correction to: "Maximal orders of global dimension and Krull dimension two". 88e:16008b
- Auslander, Maurice Almost split sequences and algebraic geometry. 88e:16046
- (with Reiten, Idun) Almost split sequences for rational double points. 88i:13011
- Bariet, D. Le calcul de la forme hermitienne canonique pour $X^a + Y^b + Z^c = 0$. [The calculation of the canonical Hermitian form for $X^a + Y^b + Z^c = 0$] 88f:32035
- Benson, Max (with Yau, Stephen S.-T.) Lie algebras and their representations arising from isolated singularities: computer method in calculating the Lie algebras and their cohomology. 88k:32020
- Bertin, José Automorphismes des surfaces non complètes, groupes fuchsien et singularités quasihomogènes. [Automorphisms of incomplete surfaces, Fuchsian groups and quasihomogeneous singularities] 88a:14040
- Clauwens, F. J. B. J. The Arf invariants of Brieskorn-Pham singularities. 88f:11028
- Cossart, V. Forme normale d'une fonction sur un k -schéma de dimension 3 et de caractéristique positive. [Normal form of a function on a three-dimensional k -scheme of positive characteristic] 88i:14007
- García, Arnaldo (with Stöhr, Karl-Otto) On semigroups of irreducible algebroid plane curves. 88j:14037
- Lamotte, Klaus ★ Regular solids and isolated singularities. 88c:32014
- Laufer, Henry B. Generation of 4-pluricanonical forms for surface singularities. 88e:14049
- The multiplicity of isolated two-dimensional hypersurface singularities. 88g:32019
- Loeser, François À propos de la forme hermitienne canonique d'une singularité isolée d'hypersurface. (English summary) [Concerning the canonical Hermitian form of an isolated singular point of a hypersurface] 88h:32006
- Neumann, Walter D. Splicing algebraic links. 88e:57009
- Reid, Les N -dimensional rings with an isolated singular point having nonzero K_{-N} . 88i:32020
- Reiten, Idun See Auslander, Maurice. 88i:13011
- Saito, Kyoji Theory of general weight systems and related topics. I. (Japanese) 88c:32015a
- Theory of general weight systems and related topics. II. Singularity theory, general Weyl groups and their relations to invariant theory. (Japanese) 88c:32015b
- Srinivas, V. Modules of finite length and Chow groups of surfaces with rational double points. 88h:14007
- Stöhr, Karl-Otto See García, Arnaldo. 88j:14037
- Tomari, Masataka Maximal-ideal-adic filtration on $R^1\psi_*\mathcal{O}_P$ for normal two-dimensional singularities. 88j:32010
- Urbat, Tetsu Classification of nonnormal quartic surfaces. 88a:14041
- Wall, C. T. C. Exceptional deformations of quadrilateral singularities and singular $K3$ surfaces. 88e:14004
- Real forms of cusp singularities. II. 88h:14040
- Wunram, J. Reflexive modules on cyclic quotient surface singularities. 88m:14023
- Xiao, Er Jian On the second kind of relative cohomology of mappings with isolated singularities. (Chinese) 88i:58020
- Yau, Stephen S.-T. Singularities defined by $s(2, C)$ invariant polynomials and solvability of Lie algebras arising from isolated singularities. 88d:32022

A necessary and sufficient condition for a local commutative algebra to be a moduli algebra: weighted homogeneous case. 88f:32036

See also Benson, Max. 88k:32020

14B07 Deformations of singularities [See also 14D15, 32C40, 32G05, 32G11, 32G13.]

- Altmann, Klaus Equisingular deformations of isolated 2-dimensional hypersurface singularities. 88f:14005
- Ishii, Shihoko Erratum: "Small deformations of normal singularities" [Math. Ann. 275 (1986), no. 1, 139-148; MR 87i:14003]. 88c:14004
- Sancho de Salas, C. Moduli of analytic branches. 88k:14004
- Vogt, Axel Quasirationale Singularitäten. (English summary) [Quasirational singularities] 88e:14003
- Correction to: "Quasirational singularities" [Manuscripta Math. 57 (1987), no. 2, 239-247; MR 88e:14003]. (German) 88j:14006
- Wall, C. T. C. Exceptional deformations of quadrilateral singularities and singular $K3$ surfaces. 88e:14004

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- Behnke, Kurt (with Knörrer, Horst) On infinitesimal deformations of rational surface singularities. 88b:14028
- Damon, James Deformations of sections of singularities and Gorenstein surface singularities. 88i:58017
- Huneke, Craig (with Ulrich, Bernd) The structure of linkage. 88k:13020
- Knörrer, Horst See Behnke, Kurt. 88b:14028
- Kronheimer, Peter Benedict Instantons gravitationnels et singularités de Klein. (English summary) [Gravitational instantons and Kleinian singularities] 88a:53043
- Laufer, Henry B. Strong simultaneous resolution for surface singularities. 88g:32024
- Ogata, Shoetsu Infinitesimal deformations of generalized cusp singularities. 88m:32042
- O'Shea, Donald B. Topologically trivial deformations of isolated quasihomogeneous hypersurface singularities are equimultiple. 88k:32056
- Ran, Ziv The degree of a Severi variety. 88i:14019
- Ulrich, Bernd See Huneke, Craig. 88k:13020
- Wirthmüller, Klaus Torus embeddings and deformations of simple singularities of space curves. 88a:32026

14B10 Infinitesimal methods

Items secondarily classified 14B10

- Behnke, Kurt (with Knörrer, Horst) On infinitesimal deformations of rational surface singularities. 88b:14028
- Horst, Camilla A cancellation theorem for Artinian local algebras. 88f:13005
- Knörrer, Horst See Behnke, Kurt. 88b:14028

14B12 Local deformation theory, Artin approximation, etc.

- Popescu, Dorin Artin approximation theory and applications. 88a:14006
- General Néron desingularization and approximation. 88a:14007
- Rothaus, Christel On the approximation property of excellent rings. 88c:14005

Items secondarily classified 14B12

- Cipu, Mihai (with Popescu, Dorin) A certain desingularization theorem. 88b:13012
- Damon, James Deformations of sections of singularities and Gorenstein surface singularities. 88i:58017
- Popescu, Dorin See Cipu, Mihai. 88b:13012

14B15 Local cohomology [See also 32C36.]

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- André, Michel Cohomologie locale et ultraproducts. [Local cohomology and ultraproducts] 88k:13008
- Aoyama, Yôichi (with Goto, Shiro) Some special cases of a conjecture of Sharp. 88h:13013
- Call, Frederick W. On local cohomology modules. 88c:13011
- Goto, Shiro See Aoyama, Yôichi. 88h:13013
- Herrmann, M. See Ikeda, Shin. 88j:13026
- Ikeda, Shin (with Herrmann, M.) Blowing-up rings of low multiplicity. 88j:13026
- Stückrad, Jürgen (with Vogel, Wolfgang) Castelnuovo bounds for certain subvarieties in P^n . 88c:13013
- Vogel, Wolfgang See Stückrad, Jürgen. 88j:13013

14B20 Formal neighborhoods

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- Brezuleanu, A. (with Radu, N.) Jacobian criterion of Nagata-Grothendieck and applications. 88b:13002
- Katz, Nicholas M. Local-to-global extensions of representations of fundamental groups. (French summary) 88a:14032
- Radu, N. See Brezuleanu, A. 88b:13002

14B25 Local structure of maps: étale, flat, etc. [See also 13-XX, 14E40.]

Brundu, Michela Normal and tangential flatness. 88j:14007

Items secondarily classified 14B25

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14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Brun, Jérôme (with Hirschowitz, André) Le problème de Brill-Noether pour les idéaux de P^3 . [The Brill-Noether problem for ideals of P^3] 88i:14002

Ein, Lawrence Hilbert scheme of smooth space curves. 88c:14009

Ellia, Philippe D'autres composantes non réduites de $\text{Hilb } P^3$. [Other unreduced components of $\text{Hilb } P^3$] 88m:14002

Guerra, Lucio On Chow varieties of linear systems of divisors on a projective variety. 88e:14006

Hernández, Rafael (with Sols Lucia, Ignacio) Line congruences of low degree. 88k:14005

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Lawson, H. Blaine, Jr. The topological structure of the space of algebraic varieties. 88i:14003

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Chiantini, Luca (with Valabrega, Paolo) Some problems on the degeneration of projective varieties. 88f:14025

Ciliberto, C. On the Hilbert scheme of curves of maximal genus in a projective space. 88c:14036

Elia, Philippe Sur le fibré normal des courbes de P^3 . [Normal bundles of curves in P^3] 88e:14035

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Ellingsrud, Geir (with Strømme, Stein Arild) On the homology of the Hilbert scheme of points in the plane. 88c:14008

Kleiman, Steven L. (with Strømme, Stein Arild; Xambó-Descamps, Sebastian) Sketch of a verification of Schubert's number 5 819 539 783 680 of twisted cubics. 88k:14035

Le Barz, Patrick Formules pour les trisécantes des surfaces algébriques. [Formulas for trisecants of algebraic surfaces] 88j:14067

Mallavibarrena, Raquel Les groupes de Chow de $\text{Hilb}^4 P^2$ et une base pour $A^2, A^3, A^{2d-2}, A^{2d-3}$ de $\text{Hilb}^4 P^2$. (English summary) [The Chow groups of $\text{Hilb}^4 P^2$ and a base for $A^2, A^3, A^{2d-2}, A^{2d-3}$ of $\text{Hilb}^4 P^2$] 88c:14007

Sánchez, Carmen A. Smoothing curves in P^3 with $p_g = 1$. 88b:14025

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Xambó-Descamps, Sebastian See Kleiman, Steven L.; et al., 88k:14035

14C10 Equivalence relations

Hiroshi Saito² A note on cubic equivalences. 88c:14006

Items secondarily classified 14C10

Ceresa, G. An observation on the rank of the infinitesimal Abel-Jacobi mapping. (Italian) 88c:14016

14C15 Rational equivalence rings

Ellingsrud, Geir (with Strømme, Stein Arild) On the homology of the Hilbert scheme of points in the plane. 88c:14008

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Yokura, Shoji Polar classes and Segre classes on singular projective varieties. 88e:14005

Items secondarily classified 14C15

Le Barz, Patrick Quelques calculs dans les variétés d'alignements. [Some calculations in varieties of alignments] 88e:14065

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14C17 Intersection theory

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- Aoki, Noboru Some new algebraic cycles on Fermat varieties. 88m:14006
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14C35 Applications of methods of algebraic K -theory

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- Bloch, Spencer Algebraic cycles and the Beilinson conjectures. 88e:14006
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14C40 Riemann-Roch theorems [See also 14F12, 19E20, 19L10.]

- Brzeziński, Juliusz Riemann-Roch theorem for locally principal orders. 88c:14015
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- André, Yves Multiplication complexe dans les pincesaux de variétés abéliennes. [Complex multiplication in pencils of abelian varieties] 88j:14055
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- Cattani, Eduardo (with Kaplan, Aroldo G.; Schmid, Wilfried) Degeneration of Hodge structures. **88a:32029**
- (with Kaplan, Aroldo G.; Schmid, Wilfried) Variations of polarized Hodge structure: asymptotics and monodromy. **88h:32020**
- (with Kaplan, Aroldo G.; Schmid, Wilfried) L^2 and intersection cohomologies for a polarizable variation of Hodge structure. **88h:32019**
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- Kaplan, Aroldo G. See Cattani, Eduardo; et al., **88a:32029**; **88h:32019** and **88h:32020**
- Komono, Kazuhito Infinitesimal Torelli theorem for complete intersections in certain homogeneous Kähler manifolds. **88d:32034**
- Narasimhan, M. S. (with Trautmann, G.) Compactification of $M(0, 2)$. **88g:14014**
- Navarro Aznar, V. Sur la théorie de Hodge-Deligne. [On the Hodge-Deligne theory] **88j:32037**
- O'Grady, Kieran G. The Hodge structure of the intersection of three quadrics in an odd-dimensional projective space. **88a:14008**
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- Ellingsrud, Geir (with Strømme, Stein Arild) On the rationality of the moduli space for stable rank-2 vector bundles on P^2 . **88m:14011**
- Green, Paul S. (with Hübsch, Tristan) Polynomial deformations and cohomology of Calabi-Yau manifolds. **88m:14031**
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- Kollár, J. (with Shepherd-Barron, N. I.) Threefolds and deformations of surface singularities. **88m:14022**

- Laumon, G. Correspondance de Langlands géométrique pour les corps de fonctions. [Geometric Langlands correspondence for function fields] **88g:11086**
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- Narasimhan, M. S. Survey of vector bundles on curves. **88j:14026**
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- Reid, Miles The moduli space of 3-folds with $K = 0$ may nevertheless be irreducible. **88h:32016**
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14D22 Fine structure of moduli spaces

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- Mukai, S. On the moduli space of bundles on $K3$ surfaces. I. **88i:14036**
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14D25 Geometric invariants [See also 14L30.]

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- Kraft, Hanspeter ★ Геометрические методы в теории инвариантов. (Russian) [Geometric methods in the theory of invariants] **88h:14015**
- (Panyushev, D. I.) See Kraft, Hanspeter, **88h:14015**
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- On the projective invariants of quartic plane curves. **88i:14064**
- Quelques résultats de finitude en théorie des invariants. [Some finiteness results in invariant theory] **88h:20050**
- Fautieroy, A. On the moduli of curves on rational ruled surfaces. **88f:14027**
- Kirwan, Frances On the homology of compactifications of moduli spaces of vector bundles over a Riemann surface. **88e:14012**
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- Sansuc, Jean-Jacques See Colliot-Thélène, Jean-Louis, **88j:14059**
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- Carbonne, Philippe Algèbres graduées normales. II. Construction d'un schéma sur certains anneaux N^* -gradués. [Normal graded algebras. II. Construction of a scheme over certain N^* -graded rings] **88e:13012**
- Jennings, George Lines having high contact with a projective variety. **88f:14039**

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

- Benveniste, X. Un résultat sur les faces du cône des 1-cycles effectifs. [A result on the faces of the cone of effective 1-cycles] **88a:14009**
- Chegoadev, A. I. Birational mappings of a nonsingular cubic surface in P^3 . (Russian) **88k:14007**
- Christensen, Chris Strong domination/weak factorization of three-dimensional regular local rings. **88a:14010a**

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- Colliot-Thélène, Jean-Louis A problem of Zariski. 88h:14017
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14Gxx Special ground fields, arithmetic problems {For complex multiplication, see 11G15, 14K22. For automorphic and modular functions and forms, see also 11Fxx, 14K15.}

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14G05 Rationality questions

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- Le Brigand, D. On computational complexity of some algebraic curves over finite fields. 88a:11134
- Poulakis, Dimitrios La courbe modulaire $X_0(125)$ et sa jacobienne. (English summary) [The modular curve $X_0(125)$ and its Jacobian] 88f:11057
- Revy, Philippe Une classe d'équations cubiques. (English summary) [A class of cubic equations] 88c:11019
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- Coombes, Kevin R. Motifs, L -functions, and the K -cohomology of rational surfaces over finite fields. 88c:14030
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- Adolphson, Alan (with Sperber, Steven) Exponential sums and Newton polyhedra. 88d:11078
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- Blasius, Don On the critical values of Hecke L -series. 88i:11035
- Bloch, Spencer (with Grayson, Daniel R.) K_2 and L -functions of elliptic curves: computer calculations. 88f:11061
- Crew, Richard Geometric Iwasawa theory and a conjecture of Katz. 88f:14016
- Dwork, B. On the Tate constant. 88e:14030
- Frey, Gerhard Some aspects of the theory of elliptic curves over number fields. 88b:11033
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- L'invariant μ des fonctions L p -adiques des courbes elliptiques à multiplication complexe est nul (d'après L. Schneps et R. Gillard). [The μ -invariant of p -adic L -functions of elliptic curves with complex multiplication is zero (after L. Schneps and R. Gillard)] 88g:11077
- Grayson, Daniel R. See Bloch, Spencer, 88f:11061
- Haran, S. p -adic L -functions for modular forms. 88k:11036
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- Fonctions L p -adiques et points de Heegner. [p -adic L -functions and Heegner points] 88i:11038
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- Zagier, Don Bernard Modular points, modular curves, modular surfaces and modular forms. 88j:11033

14G13 Weil-Tate conjectures [See also 14Cxx.]

Items secondarily classified 14G13

- Klingenberg, Christoph Die Tate-Vermutungen für Hilbert-Blumenthal-Flächen. [The Tate conjectures for Hilbert-Blumenthal surfaces] 88m:11042
- Laumon, G. Transformation de Fourier, constantes d'équations fonctionnelles et conjecture de Weil. [Fourier transform, constants of functional equations and the Weil conjecture] 88g:14019

14G15 Finite ground fields

- Laumon, G. Transformation de Fourier, constantes d'équations fonctionnelles et conjecture de Weil. [Fourier transform, constants of functional equations and the Weil conjecture] 88g:14019
- Schoof, R. J. Nonsingular plane cubic curves over finite fields. 88k:14013

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- Chudnovsky, G. V. See Chudnovsky, D. V., 88d:11128

- Colliot-Thélène, Jean-Louis (with Raskind, Wayne) On the reciprocity law for surfaces over finite fields. 88b:11037
- Drienecourt, Yves Some properties of elliptic codes over a field of characteristic 2. 88a:94027
- (with Michon, Jean-François) Elliptic codes over fields of characteristic 2. 88m:94029
- Dür, Arne See Oberst, Ulrich, 88i:94020
- Gonzalez-Sprinberg, G. (with Verdier, Jean-Louis) Structure multiplicative des modules réflexifs sur les points doubles rationnels. [Multiplicative structure of reflexive modules over rational double points] 88k:14002
- Hirschfeld, J. W. P. Quadrics over finite fields. 88e:51022
- Lachaud, Gilles Sommes d'Eisenstein et nombre de points de certaines courbes algébriques sur les corps finis. (English summary) [Eisenstein sums and number of points of some algebraic curves over finite fields] 88m:11044
- Langlands, R. P. (with Rapoport, M.) Shimuravarietäten und Gerben. [Shimura varieties and gerbs] 88i:11036
- van Lint, J. H. (with Springer, T. A.) Generalized Reed-Solomon codes from algebraic geometry. 88f:94040
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- Oberst, Ulrich (with Dür, Arne) A constructive characterization of all optimal linear codes. 88i:94020
- Rapoport, M. See Langlands, R. P., 88i:11036
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- Ruck, Hans-Georg A note on elliptic curves over finite fields. 88d:11058
- Serre, J.-P. Sur les représentations modulaires de degré 2 de $\text{Gal}(\bar{\mathbb{Q}}/\mathbb{Q})$. [On modular representations of degree 2 of $\text{Gal}(\bar{\mathbb{Q}}/\mathbb{Q})$] 88g:11022
- Springer, T. A. See van Lint, J. H., 88f:94040
- Stöhr, Karl-Otto (with Voloch, José Felipe) A formula for the Cartier operator on plane algebraic curves. 88g:14026
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- Verdier, Jean-Louis See Gonzalez-Sprinberg, G., 88k:14002
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- Wolffmann, Jacques Recent results on coding and algebraic geometry. 88i:94021
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14G20 p -adic ground fields (local fields)

- Bélar, Luc Spectres p -adiques en rang fini. (English summary) [p -adic spectra in finite p -rank] 88g:14020
- Bröcker, L. (with Schinke, Johann-Heinrich) ★ On the L -adic spectrum. 88c:14031
- Dwork, B. On the Tate constant. 88e:14030
- Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. [Analytic open sets of an algebraic curve in rigid geometry] (See 88g:11003)
- Ouverts analytiques d'une courbe algébrique en géométrie rigide. [Analytic open sets of an algebraic curve in rigid geometry] 88e:14031
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- Comparaison entre la cohomologie algébrique et la cohomologie p -adique rigide à coefficients dans un module différentiel. I. Cas des courbes. [Comparison between algebraic and rigid p -adic cohomology with coefficients in a differential module. I. The case of curves] 88d:14014
- Gekeler, Ernst-Ulrich ★ Drinfel'd modular curves. 88b:11077
- Goldman, Jay R. Numbers of solutions of congruences: Poincaré series for algebraic curves. 88b:11035
- Herrlich, Frank Nichtarchimedische Teichmüllerräume. [Non-Archimedean Teichmüller spaces] 88m:32045
- Igusa, Jun-ichi Complex powers of irreducible algebraic curves. 88j:11084
- Jordan, Bruce W. (with Livné, Ron A.) On the Néron model of Jacobians of Shimura curves. 88c:11039
- Livné, Ron A. See Jordan, Bruce W., 88c:11039
- van der Put, M. The cohomology of Monsky and Washnitzer. (French summary) 88a:14022
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- Robinson, Edmund The p -adic spectrum. 88d:14002
- Van Steen, Guido Morphisms of Mumford curves. 88b:14017
- Wintenberger, Jean-Pierre Groupes algébriques associés à certaines représentations p -adiques. [Algebraic groups associated to certain p -adic representations] 88j:14056

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14G25 Global ground fields

- Chinberg, T. Intersection theory and capacity theory on arithmetic surfaces. 88g:14021
- Kenku, M. A. (with Momose, Fumiyuki) Automorphism groups of the modular curves $X_0(N)$. 88m:14015
- Momose, Fumiyuki Rational points on the modular curves $X_0^*(N)$. 88h:14031
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- Silverman, Joseph H. A survey of the theory of height functions. 88i:14013

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- Comanada, Salvador (with Nart, Enric) Courbes elliptiques avec bonne réduction partout. (English summary) [Elliptic curves with good reduction everywhere] 88b:11038
- Dem'yanenko, V. A. Sharp estimates for orders of torsion of points of curves of genus 1. (Russian) 88b:11037
- Elkies, Noam D. The existence of infinitely many supersingular primes for every elliptic curve over \mathbb{Q} . 88b:11034
- Frey, Gerhard Some aspects of the theory of elliptic curves over number fields. 88b:11033
- Gros, Michel 0-cycles de degré 0 sur les surfaces fibrées en coniques. [0-cycles of degree 0 on conic bundle surfaces] 88b:14007
- Gross, Benedict H. Heegner points and the modular curve of prime level. 88b:11037
- Hindry, Marc Points quadratiques sur les courbes. (English summary) [Quadratic points on curves] 88b:11037
- Hriljac, Paul Splitting fields of principal homogeneous spaces. 88b:11043
- Husemoller, Dale H. ★ Elliptic curves. 88b:11039
- Imai, Hideo On the p -adic heights of some abelian varieties. 88b:14058
- Jordan, Bruce W. Points on Shimura curves rational over number fields. 88b:11030
- Katsurada, Hidenori On representations of the maximal unramified Galois extension of a field of positive characteristic. 88b:11083
- Kihara, Shoichi On the rank of the elliptic curve $y^2 = x^3 + k$. 88b:11018
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- Mestre, J.-F. Courbes de Weil et courbes supersingulières. [Weil curves and supersingular curves] 88b:11034
- Momose, Fumiyuki Rational points on the modular curves $X_0^*(p')$. 88b:11056
- Muder, Douglas J. Concerning a conjecture of Colliot-Thélène and Sansuc. 88b:14004
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- Schmidt, C.-G. Die Fermat-Kurve und ihre Jacobi-Mannigfaltigkeit. [The Fermat curve and its Jacobian] 88b:11013
- Schwartz, Charles F. On a family of elliptic surfaces with Mordell-Weil rank 4. 88b:14045
- Serre, J.-P. Sur les représentations modulaires de degré 2 de $\text{Gal}(\bar{\mathbb{Q}}/\mathbb{Q})$. [On modular representations of degree 2 of $\text{Gal}(\bar{\mathbb{Q}}/\mathbb{Q})$] 88b:11022
- Smit, Dirk-Jan String theory and algebraic geometry of moduli spaces. 88b:14019
- Tate, J. See Mazur, Barry C., 88b:11039 and Lang, Serge, 88b:11028
- Turner, S. Gauss sums and algebraic cycles. 88b:11047

14G30 Real ground fields [See also 32C05. Must also be assigned at least one other number referring to the specific type of problem considered.]

- Alonso, M. E. (with Andradás, C.) Real spectra of complete local rings. 88b:14022
- (with Roy, M.-F.) Real strict localizations. 88b:14014
- Andradás, C. See Alonso, M. E., 88b:14022
- Ayoub, Ghazi Le groupe de Witt d'une surface réelle. [The Witt group of a real surface] 88b:14032
- Becker, Eberhard On the real spectrum of a ring and its application to semialgebraic geometry. 88b:14022
- Bochnak, J. (with Kucharz, Wojciech) Real algebraic surfaces as complete intersections. 88b:14032
- (with Kucharz, Wojciech) Examples of factorial rings in algebraic geometry. 88b:14023
- Brumfiel, G. W. Quotient spaces for semialgebraic equivalence relations. 88b:14015
- Fedida, Edmond See Seydi, Hamet, 88b:14034
- Gamboa, J. M. A note on hyperplane sections of real algebraic sets. 88b:14016
- Kucharz, Wojciech Vector bundles over real algebraic surfaces and threefolds. 88b:14024
- Real algebraic curves as complete intersections. 88b:14018
- See also Bochnak, J., 88b:14023 and 88b:14032
- Risler, Jean-Jacques Complexité et géométrie réelle (d'après A. Khovanskii). [Complexity and real geometry (following A. Khovanskii)] 88b:14033
- Roy, M.-F. Logique et géométrie algébrique réelle. [Logic and real algebraic geometry] 88b:14025
- See also Alonso, M. E., 88b:14014
- Seydi, Hamet (with Fedida, Edmond) Cohomologie des faisceaux de Nash. II. [Cohomology of Nash sheaves. II] 88b:14034
- Vasallo, Luis Miguel Pardo The polynomial separation problem in $\text{Spec}(A)$. 88b:14035

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- Akbulut, Selman (with King, Henry Churchill) The topology of resolution towers. 88b:57039
- Alling, Norman L. An isomorphism theorem for algebraic function fields of genus one over real-closed fields. 88b:14033
- Bochnak, J. (with Kucharz, Wojciech) Morphismes algébriques réels à valeurs dans S^{2k} et K -théorie algébrique. (English summary) [Real algebraic morphisms with values in S^{2k} and algebraic K -theory] 88b:14014
- (with Kucharz, Wojciech) Algebraic approximation of mappings into spheres. 88b:58018
- Böge, Werner Quantifier elimination for real closed fields. 88b:03044
- Bujalance, Emilio Automorphism groups of compact planar Klein surfaces. 88b:20058
- (with Etayo Gordejuela, José Javier; Gamboa, J. M.) Topological types of p -hyperelliptic real algebraic curves. 88b:14031
- Cucker, Felipe A Nullstellensatz for Nash functions. (Italian. English summary) 88b:32011

- Etayo Gordejuela, José Javier (with Pérez-Chirinos, C.) Bordered and unbordered Klein surfaces with maximal symmetry. 88b:14048
- See also Bujalance, Emilio; et al., 88b:14031
- Gamboa, J. M. See Bujalance, Emilio; et al., 88b:14031
- Ishikawa, Goo The number of singular points in a pencil of real plane algebraic curves. 88b:14032
- King, Henry Churchill See Akbulut, Selman, 88b:57039
- Knus, Max-Albert Bundles on \mathbb{P}^2 with a quaternionic structure. 88b:14023
- Kucharz, Wojciech Topology of real algebraic threefolds. 88b:57066
- Framed cobordisms in real algebraic geometry. 88b:57040
- See also Bochnak, J., 88b:58018 and 88b:14014
- Pérez-Chirinos, C. See Etayo Gordejuela, José Javier, 88b:14048
- Polotovskii, G. M. The relation between the rigid isotopy class of a nonsingular fifth-order curve in \mathbb{RP}^2 and its position in relation to the line. (Russian) 88b:14026
- Risler, Jean-Jacques Un analogue local du théorème de Harnack. [A local analogue of Harnack's theorem] 88b:14003
- See also Seminar: Real algebraic geometry, 88b:14003
- Schüttling, H.-W. Sums of $2n$ th powers in real function fields. 88b:12003
- Silhol, R. Bounds for the number of connected components and the first Betti number mod two of a real algebraic surface. 88b:14030
- Cohomologie de Galois et cohomologie des variétés algébriques réelles; applications aux surfaces rationnelles. (English summary) [Galois cohomology and cohomology of real algebraic varieties; applications to rational surfaces] 88b:14030
- Cohomologie de Galois et cohomologie des variétés algébriques réelles; applications aux surfaces rationnelles. (English summary) [Galois cohomology and cohomology of real algebraic varieties; applications to rational surfaces] 88b:14018
- Wall, C. T. C. Real forms of cusp singularities. II. 88b:14040

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Seminar:

- Real algebraic geometry ★ Séminaire sur la géométrie algébrique réelle. Tome I, II. (French) [Seminar on real algebraic geometry. Vol. I, II] 88b:14003

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- Frey, Gerhard (with Rück, Hans-Georg) The strong Lefschetz principle in algebraic geometry. 88b:14023
- Rück, Hans-Georg See Frey, Gerhard, 88b:14023
- Items secondarily classified 14G99
- Buium, Alexandru Fields of definition of algebraic varieties in characteristic zero. 88b:14001
- Gillet, H. An introduction to higher-dimensional Arakelov theory. 88b:14005
- Mathieu, Olivier Une formule sur les opérateurs différentiels en caractéristique non nulle. (English summary) [A formula on differential operators in nonvanishing characteristic] 88b:14026

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- Brieskorn, Egbert (with Knörrer, Horst) ★ Plane algebraic curves. 88b:14001
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- (Stillwell, John) See Brieskorn, Egbert, 88b:14001

14H05 Algebraic functions [See also 14K20, 32G20.]

- Karl, Ernst J. The Galois-module structure of the space of holomorphic differentials of a curve. 88b:14024
- Nakajima, Shōichi On abelian automorphism groups of algebraic curves. 88b:14016
- Stöhr, Karl-Otto (with Voloch, José Felipe) A formula for the Cartier operator on plane algebraic curves. 88b:14026
- Totalar, Hasan İlhan The Weierstrass nongap sequence beginning with 4, and a construction of its algebraic function field. (Turkish summary) 88b:14031
- Voloch, José Felipe See Stöhr, Karl-Otto, 88b:14026

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- García, Arnaldo (with Voloch, José Felipe) Wronskians and linear independence in fields of prime characteristic. 88b:12005
- Roquette, Peter Reciprocity in valued function fields. 88b:11058
- Voloch, José Felipe See García, Arnaldo, 88b:12005

14H10 Families, moduli (algebraic)

- Arbarello, Enrico (with Cornalba, Maurizio) The Picard groups of the moduli spaces of curves. 88b:14032
- Ballico, Edoardo (with Ellia, Philippe) Beyond the maximal rank conjecture for curves in \mathbb{P}^3 . 88b:14033
- Bardelli, Fabio The moduli space of curves of genus three together with an odd theta-characteristic is rational. 88b:14033
- Chiantini, Luca (with Valabrega, Paolo) Some problems on the degeneration of projective varieties. 88b:14025
- Ciliberto, C. Rationally determined line bundles on families of curves. 88b:14032
- On the Hilbert scheme of curves of maximal genus in a projective space. 88b:14036
- Clemens, H. Curves on generic hypersurfaces. 88b:14037
- Erratum: "Curves on generic hypersurfaces" [Ann. Sci. École Norm. Sup. (4) 19 (1986), no. 4, 629-636; MR 88c:14037]. 88b:14017
- Coppens, Marc A remark on the embedding theorem for general smooth curves. 88b:14038
- Weierstrass points with two prescribed nongaps. 88b:14033

- Cornalba, Maurizio See Arbarello, Enrico, 88e:14032
- Eisenbud, David (with Harris, Joseph Daniel) Recent progress in the study of Weierstrass points. 88f:14026
- (with Harris, Joseph Daniel) Irreducibility and monodromy of some families of linear series. 88e:14034
- (with Harris, Joseph Daniel) When ramification points meet. 88a:14028a
- (with Harris, Joseph Daniel) Existence, decomposition, and limits of certain Weierstrass points. 88a:14028b
- (with Harris, Joseph Daniel) The Kodaira dimension of the moduli space of curves of genus ≥ 23 . 88g:14027
- (with Harris, Joseph Daniel) The monodromy of Weierstrass points. 88i:14018
- Ellia, Philippe Points rationnels de courbes génériques de P^3 . [Rational points of generic curves of P^3] 88d:14016
- Sur le fibré normal des courbes de P^3 . [Normal bundles of curves in P^3] 88e:14035
- See also Ballico, Edoardo, 88h:14033
- Ellingsrud, Geir (with Piene, Ragni; Strømme, Stein Arild) On the variety of nets of quadrics defining twisted cubics. 88h:14034
- Fantlery, A. On the moduli of curves on rational ruled surfaces. 88f:14027
- Gimigliano, A. Normally generated nonspecial invertible sheaves over curves. 88j:14034
- Harris, Joseph Daniel See Eisenbud, David, 88a:14028a; 88a:14028b; 88e:14034; 88f:14026; 88g:14027 and 88i:14018
- Hirschowitz, André Sections planes et multiseccantes pour les courbes gauches génériques principales. [Plane sections and multitransversals for principal generic space curves] 88k:14014
- Katz, Sheldon H. Tangents to a multiple plane curve. 88a:14029
- Lazarsfeld, Robert Brill-Noether-Petri without degenerations. 88b:14019
- Luengo, Ignacio On the existence of complete families of projective plane curves, which are obstructed. 88f:14028
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- Nobile, Augusto Correction to: "On specialization of curves. II" [Arch. Math. (Basel) 46 (1986), no. 3, 279-288; MR 87f:14013]. 88g:14028
- Pflaum, Uwe The canonical constellations of k -Weierstrass points. 88h:14035
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- Ran, Ziv The degree of a Severi variety. 88i:14019
- Recillas Pishmish, Servin A curve of genus q with a half-canonical embedding in P^3 . (Italian summary) 88e:14036
- Schubert, David Linear series with cusps and n -fold points. 88m:14017
- Strømme, Stein Arild On parametrized rational curves in Grassmann varieties. 88i:14020
- See also Ellingsrud, Geir; et al., 88h:14034
- Tanaka, Tatsuji A note on general projections of curves. 88f:14029
- Teixidor i Bigas, Montserrat Half-canonical series on algebraic curves. 88e:14037
- Treger, Robert On the situation of nodes of plane curves. 88j:14035
- Valabrega, Paolo See Chiantini, Luca, 88f:14025

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- Collino, Alberto A simple proof of the theorem of Torelli based on Torelli's approach. 88b:14020
- Ellia, Philippe D'autres composantes non réduites de $Hilb P^3$. [Other unreduced components of $Hilb P^3$] 88m:14002
- Geramita, A. V. See Ciliberto, C.; et al., 88g:13019
- Miret Biosca, Josep Maria On the variety of rational curves in P^n . 88j:14015
- Orecchia, F. See Ciliberto, C.; et al., 88g:13019
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- Sernesi, Edoardo ★ Topics on families of projective schemes. 88b:14006
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- Terasoma, Tomohide A Hecke correspondence on the moduli of genus 2 curves. 88j:14054
- Xiao, Gang Fibered algebraic surfaces with low slope. 88a:14046

14H15 Families, moduli (analytic) [See also 30F10, 32G15, 32G20.]

- Collino, Alberto A simple proof of the theorem of Torelli based on Torelli's approach. 88b:14020
- Dugan, Michael J. A derivation of Manin's formula. 88e:14038
- Friedman, Robert David (with Smith, Roy Campbell) Degenerations of Prym varieties and intersections of three quadrics. 88a:14030
- Lax, R. F. Weierstrass weight and degenerations. 88e:14039
- Levin, A. M. Supersymmetric elliptic curves. (Russian) 88j:14036
- Peters, Chris A. M. Some applications of the Lefschetz fixed point theorems in (complex) algebraic geometry. 88m:14018
- Smit, Dirk-Jan String theory and algebraic geometry of moduli spaces. 88m:14019
- Smith, Roy Campbell See Friedman, Robert David, 88a:14030

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- Alvarez-Gaumé, L. (with Bost, Jean-Benoit; Moore, Gregory; Nelson, Philip; Vafa, C.) Bosonization on higher genus Riemann surfaces. 88j:81061
- Beilinson, A. A. (with Manin, Yu. I.) The Mumford form and the Polyakov measure in string theory. 88a:32035
- Belavin, A. (with Knizhnik, V. G.) Complex geometry and the theory of quantum strings. 88m:32043
- Bost, Jean-Benoit See Alvarez-Gaumé, L.; et al., 88j:81061
- Ceresa, G. An observation on the rank of the infinitesimal Abel-Jacobi mapping. (Italian) 88c:14016

- Duma, A. (with Radtke, W.) ★ Zur Modultheorie kompakter Riemannscher Flächen. (German) [On the moduli theory of compact Riemann surfaces] 88g:32039
- Giddings, Steven B. (with Wolpert, Scott A.) A triangulation of moduli space from light-cone string theory. 88h:81171
- Hejhal, Dennis A. On Schottky and Koebe-like uniformizations. 88m:30097
- Holzapfel, Rolf-Peter ★ Geometry and arithmetic. Around Euler partial differential equations. 88e:11035
- Knizhnik, V. G. See Belavin, A., 88m:32043
- Manin, Yu. I. Critical dimensions of string theories and a dualizing sheaf on the moduli space of (super) curves. (Russian) 88h:17021
- See also Beilinson, A. A., 88a:32035
- McLain, Bruce (with Roth, Bernard David Barkan) Modular invariance for interacting bosonic strings at finite temperature. 88m:81115
- Moore, Gregory See Alvarez-Gaumé, L.; et al., 88j:81061
- Morozov, A. Yu. Explicit formulae for one-, two-, three- and four-loop string amplitudes. 88k:81218a
- Analytical anomaly and heterotic string in the formalism of continual integration. 88k:81218b
- Natanzon, S. M. Topological classification of pairs of commuting antiholomorphic involutions of Riemann surfaces. (Russian) 88f:30074a
- Letter to the editors: "Topological classification of pairs of commuting antiholomorphic involutions of Riemann surfaces". (Russian) 88f:30074b
- Nelson, Philip Lectures on strings and moduli space. 88e:81001
- See also Alvarez-Gaumé, L.; et al., 88j:81061
- Ohrndorf, Theophil A variational approach to closed bosonic strings on bordered Riemann surfaces. 88k:81222
- Radtke, W. See Duma, A., 88g:32039
- Ran, Ziv On a theorem of Martens. 88k:14017
- Reina, C. Global aspects of string theory. 88g:58045
- Restuccia, A. (with Taylor, John G.) Inexact modes, holomorphicity and modular invariance in light-cone gauge strings and superstrings. 88k:81224
- Roth, Bernard David Barkan See McLain, Bruce, 88m:81115
- Shiba, Masakazu The moduli of compact continuations of an open Riemann surface of genus one. 88f:30076
- Stückrad, Jürgen (with Vogel, Wolfgang) On contributions of embedded components to intersection theory. II. 88m:14003
- Taylor, John G. See Restuccia, A., 88k:81224
- Toledo, Domingo Nonexistence of certain closed complex geodesics in the moduli space of curves. 88j:32026
- Vafa, C. See Alvarez-Gaumé, L.; et al., 88j:81061
- Vogel, Wolfgang See Stückrad, Jürgen, 88m:14003
- Wolpert, Scott A. See Giddings, Steven B., 88h:81171
- Zaidenberg, M. G. Structures of finite degenerations of families of curves on affine surfaces and characterization of the affine plane. (Russian) 88f:14010

14H20 Singularities, local rings [See also 13Hxx.]

- Campillo Lopez, Antonio Singularities of strange curves. 88i:14021
- García, Arnaldo (with Stöhr, Karl-Otto) On semigroups of irreducible algebroid plane curves. 88f:14037
- Gudkov, D. A. (with Komleva, N. K.) Calculation of the invariants of the singular point of an algebraic curve. (Russian) 88i:14022
- Komleva, N. K. See Gudkov, D. A., 88i:14022
- Orevkov, S. Yu. On three-sheeted polynomial mappings of C^2 . (Russian) 88i:14023
- Salto, Takeshi Vanishing cycles and geometry of curves over a discrete valuation ring. 88h:14036
- Shustin, E. I. Estimates for the number of singular points of algebraic curves. (Russian) 88i:14024
- Stöhr, Karl-Otto See García, Arnaldo, 88f:14037
- (Teissier, Bernard) See Zariski, Oscar, 88a:14031
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- Zariski, Oscar ★ Le problème des modules pour les branches planes. (French) [The moduli problem for plane branches] 88a:14031

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- Brieskorn, Egbert (with Knörrer, Horst) ★ Plane algebraic curves. 88a:14001
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- González, Miguel Singularités de la courbe des bisécantes stationnaires. (English summary) [Singularities of the curve of stationary bisecants] 88k:14019
- Ishikawa, Goo The number of singular points in a pencil of real plane algebraic curves. 88f:14032
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- Automorphism groups of 3-nodal rational curves. 88m:14021
- Luengo, Ignacio On the existence of complete families of projective plane curves, which are obstructed. 88f:14028
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- Némethi, András On the fundamental group of the complement of certain singular plane curves. 88m:14020
- Neumann, Walter D. Splicing algebraic links. 88e:57009
- Nobile, Augusto Correction to: "On specialization of curves. II" [Arch. Math. (Basel) 46 (1986), no. 3, 279-288; MR 87f:14013]. 88g:14028
- Ran, Ziv The degree of a Severi variety. 88i:14019

- Serre, J.-P. ★ Groupes algébriques et corps de classes. (French) [Algebraic groups and class fields] 88b:14044
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14H25 Arithmetic ground fields [See also 11Dxx, 14Gxx.]

- Van Steen, Guido Morphisms of Mumford curves. 88d:14017

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- Cantor, David G. Computing in the Jacobian of a hyperelliptic curve. 88f:11118
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 Chinberg, T. Intersection theory and capacity theory on arithmetic surfaces. 88g:14021
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 Rajwade, A. R. See Rishi, Dharam Bir, 88f:11062
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- Katz, Nicholas M. Local-to-global extensions of representations of fundamental groups. (French summary) 88a:14032
 Morrison, Ian (with Pinkham, Henry) Galois Weierstrass points and Hurwitz characters. 88a:14033
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14H35 Correspondences [See also 14Exx.]

- Gaeta, F. Correspondences, Wirtinger varieties and period relations of abelian integrals in algebraic curves. 88k:14015

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- Allibert, Daniel Termes locaux de la formule de Lefschetz pour les courbes. [Local terms of the Lefschetz formula for curves] 88a:14019
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- Arbarello, Enrico (with De Concini, C.) Another proof of a conjecture of S. P. Novikov on periods of abelian integrals on Riemann surfaces. 88i:14025
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 Welters, Gerald E. Curves of twice the minimal class on principally polarized abelian varieties. 88c:14061

14H45 Special curves

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15-XX Linear and multilinear algebra; matrix theory (finite and infinite)

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- Lüneburg, Heinz ★ On the rational normal form of endomorphisms. 88j:68075
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- Zurmühl, Rudolf (with Falk, Sigurd) ★ Matrizen und ihre Anwendungen für angewandte Mathematiker, Physiker und Ingenieure. Teil 2. (German) [Matrices and their applications for applied mathematicians, physicists and engineers. Vol. 2] 88g:65024

15-03 Historical (must also be assigned at least one classification number from Section 01)

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- Well, André Gauss et la composition des formes quadratiques binaires. [Gauss and the composition of binary quadratic forms] 88m:01054

15-04 Explicit machine computation and programs (not the theory of computation or programming)

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- Auburn, Ala. ★ Current trends in matrix theory. 88e:15001
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Matrix theory ★ Current trends in matrix theory. 88e:15001

15A03 Vector spaces, linear dependence, rank

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- Demenchuk, V. V. Additive semigroups of null linear relations on finite-dimensional vector spaces. (Russian) 88k:15002
- Knuth, Donald E. Semioptimal bases for linear dependencies. 88f:15001
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- Shaw, Ronald A familiar tensor identity and its n -dimensional generalisations. 88h:15003

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16-XX Associative rings and algebras {For the commutative case, see 13-XX.}

16-01 Elementary exposition; textbooks

- Pierce, Richard S. ★ Ассоциативные алгебры. (Russian) [Associative algebras] 88b:16001 (Rapinchuk, A. S.) See Pierce, Richard S. 88b:16001
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- Shafarevich, I. R. ★ Современные проблемы математики. Фундаментальные направления. Том 11. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 11] 88i:00007

Unauthored items

- Itogi Nauki i Tekhniki See Shafarevich, I. R. 88i:00007

16-02 Advanced exposition (research surveys, monographs, etc.)

- Cohn, P. M. Principles of noncommutative algebraic geometry. 88b:16001
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 (Marubayashi, Hidetoshi) See Proceedings: Symposium on ring theory. 88i:16002
 (Mlitz, R.) See Contributions to General Algebra. 88b:16001
 (Small, Lance W.) See Noetherian rings and their applications. 88g:16001
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- Abelian groups and modules ★ Абелевы группы и модули. (Russian) [Abelian groups and modules] 88c:20002
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- Czichowski, Günter (with Hegazi, Ahmed Sadek) Endlichdimensionale gradierte Algebren und ihre Darstellungen. [Finite-dimensional graded algebras and their representations] 88b:16002
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- CBMS Regional Conference Series in Mathematics See Upmeyer, Harald, 88h:17032

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- Sierra, G. An application of the theories of Jordan algebras and Freudenthal triple systems to particles and strings. 88h:81059
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- Abd el Malek, Alfī (with Micali, Artibano) Algèbres de Malcev faiblement restreintes. (English summary) [Weakly restricted Mal'tsev algebras] 88m:17029
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 Ko, Young So (with Myung, Hyo Chul; Shin, Dong Sun) Flexible Malcev-admissible algebras with nil Cartan subalgebras. 88a:17044
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- Progress in Mathematics *See* Myung, Hyo Chul, 88j:17028

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- Abd el Malek, Alfī (with Micali, Artibano) Sur les algèbres Malcev-admissibles. (English summary) [On Mal'tsev-admissible algebras] 88i:17025
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17D15 Right alternative rings

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 Ng, Seong Nam Alternative nucleus of right alternative algebras. 88e:17028
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- Paul, Yash (with Sharadha, S.) On $(-1, 1)$ rings with commutators in the left nucleus. 88h:17036
 Pchelintsev, S. V. On the variety of $(-1, 1)$ algebras. (Russian) 88h:17037
 Sharadha, S. *See* Paul, Yash, 88h:17036

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- Pchelintsev, S. V. On varieties generated by free $(-1, 1)$ algebras of finite rank. (Russian) 88h:17035
 Umirbaev, U. U. The word problem for Jordan and right-alternative algebras. (Russian) 88j:17025

17D25 Lie admissible algebras

- Abd el Malek, Alfī (with Micali, Artibano) Sur les algèbres Malcev-admissibles. (English summary) [On Mal'tsev-admissible algebras] 88i:17025
 Fellouris, Anargyros G. Graded Lie admissibility of a 2×2 matrix algebra. 88b:17043
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 (with Martínez, C.) Noncommutative Jordan mutation algebras. A partial order relation. 88j:17029
 Martínez, C. *See* González, Santos, 88g:17030 and 88j:17029
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- Okubo, Susumu Dimensional regularization and nonassociative Dirac-Clifford algebra. 88c:17024

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- González, Santos (with Martínez, C.) Lie mutation of an associative algebra. 88f:17019
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 Shen, Guang Yu On Lie algebras associated with nodal noncommutative Jordan algebras. 88b:17024

17D92 Genetic algebras

- Campos, Tânia M. M. (with Holgate, Philip) Algebraic isotopy in genetics. 88k:17026
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 Holgate, Philip The interpretation of derivations in genetic algebras. 88b:17044
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17D99 None of the above, but in this section

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- Progress in Mathematics *See* Myung, Hyo Chul, 88j:17028

18-XX Category theory, homological algebra

18-01 Elementary exposition; textbooks

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- Brown, Kenneth S. ★ Когомологии групп. (Russian) [Cohomology of groups] 88c:20001
 (Fuks, D. B.) *See* Brown, Kenneth S., 88c:20001
 Shafarevich, I. R. ★ Современные проблемы математики. Фундаментальные направления. Том 11. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 11] 88i:00007

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- Itogi Nauki i Tekhniki *See* Shafarevich, I. R., 88i:00007

18-02 Advanced exposition (research surveys, monographs, etc.)

Items secondarily classified 18-02

- Arbib, Michael A. *See* Manes, Ernest G., 88d:68069
 Eckmann, Beno ★ Selecta. 88g:01069
 (Knus, Max-Albert) *See* Eckmann, Beno, 88g:01069
 Lambek, J. (with Scott, P. J.) ★ Introduction to higher order categorical logic. 88a:03032
 Manes, Ernest G. (with Arbib, Michael A.) ★ Algebraic approaches to program semantics. 88d:68069
 (Mislin, Guido) *See* Eckmann, Beno, 88g:01069
 Scott, P. J. *See* Lambek, J., 88a:03032
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- Bibliography :
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18-03 Historical (must also be assigned at least one classification number from Section 01)

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- Hilton, Peter The birth of homological algebra. 88j:01017

18-04 Explicit machine computation and programs (not the theory of computation or programming)

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18-06 Proceedings, conferences, etc.

(Mania, Yu. I.) See *K-theory, arithmetic and geometry*, 88i:18001

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K-theory, arithmetic and geometry ★ *K-theory, arithmetic and geometry*. 88i:18001

Lecture Notes in Mathematics ★ *K-theory, arithmetic and geometry*. 88i:18001

Moscow ★ *K-theory, arithmetic and geometry*. 88i:18001

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Conference:

Category topology ★ *Proceedings of the 8th international conference on categorical topology*. 88f:54001

Category theory and computer science ★ *Category theory and computer science*. 88j:68002

Edinburgh ★ *Category theory and computer science*. 88j:68002

L'Aquila ★ *Proceedings of the 8th international conference on categorical topology*. 88f:54001

Lecture Notes in Computer Science ★ *Category theory and computer science*. 88j:68002

Proceedings:

Conference on categorical topology ★ *Proceedings of the 8th international conference on categorical topology*. 88f:54001

18Axx General theory of categories and functors

18A05 Definitions, generalizations

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Preller, A. A language for category theory in which natural equivalence implies elementary equivalence of models. 88d:18001

18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx.]

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Coalgebras and algebras of incidence with a weight over precategories. (Russian) 88g:18002

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18A15 Foundations, relations to logic and deductive systems [See also 03-XX.]

Preller, A. A language for category theory in which natural equivalence implies elementary equivalence of models. 88d:18001

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Acuña-Ortega, Osvaldo An exact coexact characterization of the finite cardinals. 88j:18003

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18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

Dyckhoff, Roy (with Tholen, Walter) Exponentiable morphisms, partial products and pullback complements. 88m:18003

Tholen, Walter Exponentiable monomorphisms. 88f:18001

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18A22 Special properties of functors (faithful, full, etc.)

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18A23 Natural morphisms, dinatural morphisms

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Tholen, Walter Exponentiable monomorphisms. 88f:18001

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Porter, Timothy Extensions, crossed modules and internal categories in categories of groups with operations. 88j:18001

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Tholen, Walter Exponentiable monomorphisms. 88f:18001

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18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

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18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

Adelman, Murray (with Blass, Andreas) Exact functors, local connectedness and measurable cardinals. (Italian summary) 88j:18002

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Börger, Reinhard Coproducts and ultrafilters. 88h:18001

Lončar, Ivan Relative continuity of the functor β . 88m:18004

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 Kelly, G. M. See Im, G. B., **88k:18005**

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

- Bergman, George M. On the scarcity of contravariant left adjunctions. **88k:18003**
 Borceux, Francis (with Kelly, G. M.) On locales of localizations. **88k:18004**
 (with Veit, A. Barbara) On the left exactness of orthogonal reflections. **88m:18005**
 Diers, Yves Codisjoncteurs dans les catégories d'algèbres commutatives. (English summary) [Codisjunctions in categories of commutative algebras] **88k:18002**
 Giulì, E. (with Hušek, M.) A diagonal theorem for epi-reflective subcategories of Top and cocomplete powerdomains. **88f:18003**
 Hušek, M. See Giulì, E., **88f:18003**
 Im, G. B. (with Kelly, G. M.) Adjoint-triangle theorems for conservative functors. **88k:18005**
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- Behera, A. (with Nanda, Sribatsa) mod-C Postnikov approximation of a 1-connected space. **88i:55005**
 Brunet, Bernard Complétion d'un espace de recouvrement régulier. [Completion of a regular covering space] **88j:54044**
 Cuglieri, F. Epi-reflective and not totally reflective subcategories of TOP. **88a:54023**
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 Day, Brian J. Further criteria for totality. (French summary) **88f:18007**
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 Yetter, David On right adjoints to exponential functors. **88f:18002**

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- Ito, Masami¹ On small categories whose sets of objects form lattices. **88a:18002**
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 Tuzhilin, Avgustin A. Application of category theory of structural sets to modeling of information bases of systems. **88b:68155**

18Bxx Special categories

18B05 Category of sets, characterizations [See also 03-XX.]

Items secondarily classified 18B05

- Makkai, Michael (with Pitts, A. M.) Some results on locally finitely presentable categories. **88a:03162**
 Pitts, A. M. See Makkai, Michael, **88a:03162**

18B10 Category of relations, additive relations

- Gisin, V. B. (with Tsilenko, M. Sh.) Algebraic theory of systems and its applications. II. (Russian) **88a:18003**
 Topencharov, V. V. On the general composition of relations in a category. **88c:18001**
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- Obtulowicz, Adam The logic of categories of partial functions and its applications. **88b:03104**
 Trnková, V. Simultaneous representations in discrete structures. **88d:18002**

18B15 Imbedding theorems, universal categories [See also 18E20.]

- Herrlich, H. Topological improvements of categories of structured sets. **88m:18006**
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- Adams, M. E. (with Koubek, V.; Sichler, J.) Homomorphisms of distributive p -algebras with countably many minimal prime ideals. **88j:06027**
 Henry, C. Sur quelques problèmes de plongement en algèbre. I. Une propriété élémentaire. [Some embeddings problems in algebra. I. An elementary property] **88a:18001a**
 Sur quelques problèmes de plongement en algèbre. II. Extensions de Kan et prolongements de foncteurs des graphes multiplicatifs. [Some embedding problems

in algebra. II. Kan extensions and continuations of functors of multiplicative graphs] **88a:18001b**

- Herrlich, H. Sequential structures: categorical aspects. **88a:54004**
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 Obtulowicz, Adam Algebra of constructions. I. The word problem for partial algebras. **88g:68075**
 Pöhl, Peter Does a given subfield of characteristic zero imply any restriction to the endomorphism monoids of fields? **88k:12009**
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18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx.]

- Kasangian, Stefano (with Rosebrugh, R.) Decomposition of automata and enriched category theory. (French summary) **88i:18003**
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- Benson, David B. The category of Milner processes is exact. (See **88j:68002**)
 Betti, Renato (with Kasangian, Stefano) Tree automata and enriched category theory. (Italian summary) **88b:68137**
 Dikranjan, D. (with Giulì, E.) Ordinal invariants and epimorphisms in some categories of weak Hausdorff spaces. **88a:54025**
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 Hotz, G. A representation theorem of infinite-dimensional algebras and applications to language theory. **88c:68063**
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 Main, Michael G. Free constructions of powerdomains. **88k:68061**
 Manes, Ernest G. Weakest preconditions: categorical insights. **88f:68095**
 Additive domains. **88d:68070**
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 Melton, A. (with Schmidt, D. A.; Strecker, G. E.) Galois connections and computer science applications. **88b:68059**
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 Tennent, R. D. Functor-category semantics of programming languages and logics. **88d:68071**
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- Charney, Ruth (with Lee, Ronnie) On a theorem of Giffen. 88e:18009
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19D25 Karoubi-Villamayor-Gersten K -theory

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- Bloch, Spencer A note on Gersten's conjecture in the mixed characteristic case. 88c:18005
- Higson, Nigel A characterization of KK -theory. 88a:46083
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- Sherman, Clayton Some splitting results in the K -theory of rings. II. 88g:13012

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- Harmon, Dennis R. NK_1 of finite groups. 88g:18012
- Reid, Les N -dimensional rings with an isolated singular point having nonzero K_{-N} . 88i:13020
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- Zero cycles on a singular surface: an introduction. 88j:14012
- Stienstra, Jan Cartier-Dieudonné theory for Chow groups. 88c:14026a
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- Fesenko, I. B. See Vostokov, S. V., 88a:11128
- Gala, Daniel Stabilité de l'homologie du groupe linéaire et K -théorie algébrique. (English summary) [Homology stability of the linear group and algebraic K -theory] 88f:18015
- Izhboldin, O. T. On the torsion subgroup of Milnor K -groups. (Russian) 88m:11048
- Kato, Kazuya (with Saito, Shuji) Global class field theory of arithmetic schemes. 88c:11041
- Milnor K -theory and the Chow group of zero cycles. 88c:14012
- (with Kuzumaki, Takako) The dimension of fields and algebraic K -theory. 88f:12008
- Keating, M. E. The K -theory of triangular matrix rings. II. 88h:18009
- Kurihara, Masato On two types of complete discrete valuation fields. 88k:11090
- Kuzumaki, Takako See Kato, Kazuya, 88f:12008
- Levine, Marc The indecomposable K_3 of fields. 88i:18011
- Ogle, Crichton On the K -theory and cyclic homology of a square-zero ideal I . 88j:18007
- Saito, Shuji See Kato, Kazuya, 88c:11041
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- Arlettaz, Dominique On the homology of the special linear group over a number field. 88f:18009
- On the homology and cohomology of congruence subgroups. 88e:20048
- Betley, Stanisław Hyperbolic posets and homology stability for $O_{n,n}$. 88b:20066
- Burghelen, D. The cyclic homology of the group rings. 88e:18007
- Cyclic homology and the algebraic K -theory of spaces. I. 88i:18009a
- (with Ogle, Crichton) The Künneth formula in cyclic homology. 88a:18015
- (with Fiedorowicz, Z.) Cyclic homology and algebraic K -theory of spaces. II. 88i:18009b
- Carlsson, G. E. (with Cohen, R. L.) The cyclic groups and the free loop space. 88j:55006
- Cohen, R. L. See Carlsson, G. E., 88j:55006
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- Dwyer, W. G. (with Kan, D. M.) Normalizing the cyclic modules of Connes. 88d:18009
- (with Kan, D. M.) Three homotopy theories for cyclic modules. 88f:18022
- Farrell, F. Thomas (with Jones, Lowell Edwin) Algebraic K -theory of discrete subgroups of Lie groups. 88g:18011
- Feigin, B. L. (with Tsygan, B. L.) Additive K -theory and crystalline cohomology. (Russian) 88e:18008
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- Jones, J. D. S. Cyclic homology and equivariant homology. 88f:18016
- Jones, Lowell Edwin See Farrell, F. Thomas, 88g:18011
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- Karoubi, Max K -théorie multiplicative et homologie cyclique. (English summary) [Multiplicative K -theory and cyclic homology] 88a:18017
- Formule de Künneth en homologie cyclique. I. (English summary) [The Künneth formula in cyclic homology. I] 88c:18006a
- Formule de Künneth en homologie cyclique. II. (English summary) [The Künneth formula in cyclic homology. II] 88c:18006b
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- Panin, I. A. The Hurewicz theorem and K -theory of complete discrete valuation rings. (Russian) 88a:18021
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- Arlettaz, Dominique On the homomorphism $K_3\mathbb{Z} \rightarrow K_3F_p$. 88k:18014
- Bloch, Spencer Algebraic cycles and higher K -theory. 88f:18010
- Carrasco, P. See Cegarra, A. M.; et al., 88j:18010
- Cegarra, A. M. (with Carrasco, P.; Garzón, A. R.) La suite fondamentale de Hochschild-Serre pour la cohomologie non abélienne des groupes. I. (English summary) [The Hochschild-Serre fundamental exact sequence in nonabelian group cohomology. I] 88j:18010
- Garzón, A. R. See Cegarra, A. M.; et al., 88j:18010
- Jardine, J. F. Stable homotopy theory of simplicial presheaves. 88j:18004
- Simplicial presheaves. 88j:18005
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- Kuku, Ademir O. Some finiteness results in the higher K -theory of orders and group-rings. 88m:11100
- Lapin, S. V. See Krasauskas, R.; et al., 88i:18014
- Snaith, Victor Constructing algebraic K -theory elements from K_1A . 88a:18022
- See also Aisbett, Janet, 88b:18006
- Solov'ev, Yu. P. See Krasauskas, R.; et al., 88i:18014
- Suslin, A. A. (with Yufryakov, A. V.) The K -theory of local division algebras. (Russian) 88a:11127
- Van den Bergh, M. A note on graded K -theory. 88b:18010
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- Coombes, Kevin R. Motifs, *L*-functions, and the *K*-cohomology of rational surfaces over finite fields. 88c:14030
- Fulton, William (with Lang, Serge) \star Riemann-Roch algebra. 88b:14011
- Jardine, J. F. The multiple *Q*-construction. 88m:18016
- Lang, Serge See Fulton, William, 88b:14011
- Pascual Gainza, Pere On the simple object associated to a diagram in a closed model category. 88d:18005
- Raskind, Wayne A finiteness theorem in the Galois cohomology of algebraic number fields. 88m:11098
- Reid, Les *N*-dimensional rings with an isolated singular point having nonzero K_{-N} . 88i:13020

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- Bloch, Spencer A note on Gersten's conjecture in the mixed characteristic case. 88c:18005
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- Kato, Kazuya Milnor *K*-theory and the Chow group of zero cycles. 88c:14012
- Lecomte, Florence Rigidité des groupes de Chow. [Rigidity of Chow groups] 88c:14013
- Pedrin, Claudio (with Weibel, Charles A.) Bloch's formula for varieties with isolated singularities. I. 88d:14007
- Raskind, Wayne A finiteness theorem in the Galois cohomology of algebraic number fields. 88m:11098
- Reid, Les Some results on the lower *K*-theory of singular affine varieties. 88f:14009
- Srinivas, V. Modules of finite length and Chow groups of surfaces with rational double points. 88b:14007
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19E20 Relations with cohomology theories [See also 14F15.]

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- Bloch, Spencer Correction to: "Algebraic *K*-theory and classfield theory for arithmetic surfaces" [Ann. of Math. (2) 114 (1981), no. 2, 229-265; MR 83m:14025]. 88k:14020
- Cibils, Claude Hochschild homology of an algebra whose quiver has no oriented cycles. 88b:16049
- Dwyer, W. G. (with Friedlander, Eric Mark) Some remarks on the *K*-theory of fields. 88a:18016
- Fernández-Carmena, Fernando On the injectivity of the map of the Witt group of a scheme into the Witt group of its function field. 88b:11027
- The Witt group of a smooth complex surface. 88b:11028
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- Joshua, Roy Becker-Gottlieb transfer in étale homotopy. 88g:55020
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- Pedrin, Claudio (with Weibel, Charles A.) *K*-theory and Chow groups on singular varieties. 88a:14017
- Thomason, R. W. Comparison of equivariant algebraic and topological *K*-theory. 88b:18011
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- Beilinson, A. A. (with MacPherson, R.; Shekhtman, V. V.) Notes on motivic cohomology. 88f:14021
- Bochnak, J. (with Kucharz, Wojciech) Morphismes algébriques réels à valeurs dans S^{2k} et *K*-théorie algébrique. (English summary) [Real algebraic morphisms with values in S^{2k} and algebraic *K*-theory] 88m:14014
- Borho, Walter (with Brylinski, Jean-Luc; MacPherson, R.) A note on primitive ideals and characteristic classes. 88g:17015
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- Gillet, H. (with Levine, Marc) The relative form of Gersten's conjecture over a discrete valuation ring: the smooth case. 88f:18014
- Kucharz, Wojciech Vector bundles over real algebraic surfaces and threefolds. 88g:14024
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19F05 Generalized class field theory

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- Kato, Kazuya (with Saito, Shuji) Global class field theory of arithmetic schemes. 88c:11041
- Kurihara, Masato On two types of complete discrete valuation fields. 88k:11090
- Raskind, Wayne See Colliot-Thélène, Jean-Louis, 88b:11037
- Saito, Shuji See Kato, Kazuya, 88c:11041
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- Hurrelbrink, J. (with Kolster, Manfred) On the 2-primary part of the Birch-Tate conjecture for cyclotomic fields. 88a:11114
- Kolster, Manfred The structure of the 2-Sylow-subgroup of $K_2(\mathbb{Q})$. I. 88a:11125
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- Urbanowicz, Jerzy On the divisibility of generalized Bernoulli numbers. 88b:11012

19F27 Étale cohomology, higher regulators, zeta and *L*-functions [See also 11R42, 11S40, 14G10.]

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- Algebraic cycles and the Beilinson conjectures. 88e:14006
- Dwyer, W. G. (with Friedlander, Eric Mark) Conjectural calculations of general linear group homology. 88f:18013
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- Jardine, J. F. Cup products in sheaf cohomology. 88f:14018
- Kato, Kazuya Vanishing cycles, ramification of valuations, and class field theory. 88k:11083
- Levine, Marc The indecomposable K_3 of fields. 88b:18011
- Ramakrishnan, Dinakar Higher regulators on quaternionic Shimura curves and values of *L*-functions. 88a:14027
- Soulé, C. Éléments cyclotomiques en *K*-théorie. [Cyclotomic elements in *K*-theory] 88d:11116
- Thomason, R. W. Comparison of equivariant algebraic and topological *K*-theory. 88b:18011

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- Hettling, Karl F. A note on the 2-part of $K_2(\mathbb{Q}_p)$ for totally real number fields F . 88g:11089
- Kuku, Aderemi O. K_n , SK_n of integral group-rings and orders. 88b:18009
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19Gxx *K*-theory of forms [See also 11Exx.]

19G05 Stability for quadratic modules

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19G12 Witt groups of rings [See also 11E81.]

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- Ayoub, Ghazi Le groupe de Witt d'une surface réelle. [The Witt group of a real surface] 88c:14032
- Fernández-Carmena, Fernando On the injectivity of the map of the Witt group of a scheme into the Witt group of its function field. 88b:11027
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- Knus, Max-Albert (with Parimala, R.; Sridharan, R.) On rank 4 quadratic spaces with given Arf and Witt invariants. 88a:11039
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- Schwartz, Niels Chain signatures and higher level Witt rings. 88k:12005
- Snath, Victor The equivariant second Stiefel-Whitney class, the characteristic classes of symmetric bilinear forms and orthogonal Galois representations. 88j:11022
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- Weibel, Charles A. Module structures on the *K*-theory of graded rings. 88f:18018

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- Clauwens, F. J. B. J. The action of $\Omega(G)$ on surgery for G cyclic. I. Dold manifolds of dimension zero modulo 4. 88a:57064
- Farrell, F. Thomas (with Hsiang, W. C.) Addendum to: "On Novikov's conjecture for cocompact subgroups of a Lie group" [*Algebraic topology, Aarhus 1982*, 38–48, Lecture Notes in Math., 1051, Springer, Berlin, 1984; MR 86c:57032]. 88h:57030
- Hambleton, I. (with Ranicki, Andrew; Taylor, Laurence R.) Round L -theory. 88i:18010
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- Kharshiladze, A. F. Browder-Livesay iterative invariants and the oozing problem. (Russian) 88m:57043
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- See also Hambleton, I.; et al., 88i:18010
- Solov'ev, Yu. P. Algebraic K -theory of quadratic forms. (Russian) 88e:18011
- Stark, C. W. L -theory and graphs of free abelian groups. 88i:18012
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19Kxx K -theory and operator algebras [See mainly 46L80, and also 46M20.]

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19K14 K_0 as an ordered group, traces

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- Cuntz, J. The classification problem for the C^* -algebras \mathcal{O}_A . 88a:46081
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- (with Handelman, David) Classification of ring and C^* -algebra direct limits of finite-dimensional semisimple real algebras. 88k:46067
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- Vogel, Annie K_0 d'une limite inductive d'algèbres matricielles. [K_0 of an inductive limit of matrix algebras] 88m:16029
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19K33 EXT and K -homology

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- Effros, Edward G. (with Kaminker, Jerome) Homotopy continuity and shape theory for C^* -algebras. 88a:46082
- (with Kaminker, Jerome) Some homotopy and shape calculations for C^* -algebras. 88j:46064

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19K56 Index theory

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- Connes, A. Cyclic cohomology and the transverse fundamental class of a foliation. 88k:58149
- (with Moscovici, Henri) Transgression du caractère de Chern et cohomologie cyclique. (English summary) [Cyclic cohomology and the transgression of the Chern character] 88c:58006
- Douglas, Ronald G. Invariant theory for elliptic operators. 88h:58109
- Gillet, H. (with Soulé, C.) Direct images of Hermitian holomorphic bundles. 88d:58107
- Hô Hô'u Viêt Sur la structure des C^* -algèbres d'une classe de groupes de Lie résolubles de dimension 3. [Structure of the C^* -algebras of a class of three-dimensional solvable Lie groups] 88f:22017
- Julg, Pierre (with Valette, Alain) Twisted coboundary operator on a tree and the Selberg principle. 88d:22026
- Kasparov, G. G. Equivariant KK -theory and the Novikov conjecture. 88j:58123
- Menal, Pere (with Moncasí, Jaime) Lifting units in self-injective rings and an index theory for Rickart C^* -algebras. 88a:18020
- Mingo, J. A. K -theory and multipliers of stable C^* -algebras. 88f:46136
- Moncasí, Jaime See Menal, Pere, 88a:18020
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- Phillips, John The holonomic imperative and the homotopy groupoid of a foliated manifold. 88h:57033
- Rosenberg, Jonathan C^* -algebras, positive scalar curvature and the Novikov conjecture. II. 88f:58140
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- Boyer, Robert P. Characters of the infinite symplectic group—a Riesz ring approach. 88f:22014
- Connes, A. (with Rieffel, Marc A.) Yang-Mills for noncommutative two-tori. 88b:58033
- Corach, Gustavo (with Suárez, Fernando Daniel) Dense morphisms in commutative Banach algebras. 88k:46064
- Herman, Richard H. (with Vaserstein, Leonid N.) K_1 of the compact operators is zero. 88f:46135
- Julg, Pierre (with Valette, Alain) L'opérateur de co-bord tordu sur un arbre, et le principe de Selberg. II. [Twisted coboundary operator on a tree and the Selberg principle. II] 88m:22041
- Karoubi, Max K -théorie multiplicative et homologie cyclique. (English summary) [Multiplicative K -theory and cyclic homology] 88a:18017
- Pimsner, Mihai V. Cocycles on trees. 88b:22020
- Rieffel, Marc A. See Connes, A., 88b:58033
- Sheu, Albert Jau-Liang Classification of projective modules over the unitized group C^* -algebras of certain solvable Lie groups. 88i:46092
- Suárez, Fernando Daniel See Corach, Gustavo, 88k:46064
- Troitskii, E. V. A connection between complex and operator topological equivariant K -theories. (Russian) 88d:46132
- Valette, Alain Notes on the structure and the K -theory of the C^* -algebras associated to $SL_2(\mathbb{R})$. 88h:46129
- See also Julg, Pierre, 88m:22041
- Vaserstein, Leonid N. See Herman, Richard H., 88f:46135
- Watatani, Yasuo L'indice d'une C^* -sous-algèbre d'une C^* -algèbre simple. (English summary) [Index of a C^* -subalgebra of a simple C^* -algebra] 88i:46078

19Lxx Topological K-theory [See also 55N15, 55R50, 55S25.]

19L10 Riemann-Roch theorems, Chern characters

Items secondarily classified 19L10

Masuda, Tetsuya Bivariant homology-cohomology theory and Chern character on KK -theory. 88d:46131

19L41 Connective K-theory, cobordism [See also 55N22.]

Items secondarily classified 19L41

Johnson, David Copeland On the $[p]$ -series in Brown-Peterson homology. 88k:55004

19L47 Equivariant K-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91.]

Items secondarily classified 19L47

Gilkey, Peter B. (with Karoubi, Max) K -theory for spherical space forms. 88c:55009

Ishikawa, Nobuhiro On the equivariant Hopf structures of a sphere with an S^1 -action. 88m:55005

Karoubi, Max See Gilkey, Peter B., 88c:55009

Kostant, Bertram (with Kumar, Shrawan) T -equivariant K -theory of generalized flag varieties. 88m:22048

Kumar, Shrawan See Kostant, Bertram, 88m:22048

Taniguchi, Toshiyuki Twisted differential operators and affine Weyl groups. 88m:22037

Thomason, R. W. Comparison of equivariant algebraic and topological K -theory. 88h:18011

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Connes, A. Cyclic cohomology and the transverse fundamental class of a foliation. 88k:58149

Costăntescu, Cristian Nicolae Applications of KO -theory. (Romanian. English summary) 88f:18012

Hashimoto, Shin On Ad^* -cohomology groups of the classifying spaces of compact Lie groups. 88f:55025a

A note on some periodicity of Ad^* -cohomology groups of lens spaces. 88f:55025b

Hegenbarth, Friedrich On the k -theory of the classifying space of the infinite symmetric group. 88k:55001

Quinn, Frank Ends of maps. IV. Controlled pseudoisotopy. 88j:57014

Watanabe, Takashi Adams operations in the connective K -theory of compact Lie groups. 88i:55006

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Assadi, A. H. (with Vogel, Pierre) Actions of finite groups on compact manifolds. 88m:57047

Clauwens, F. J. B. J. The action of $\Omega(G)$ on surgery for G cyclic. I. Dold manifolds of dimension zero modulo 4. 88a:57064

Crabb, M. C. (with Knapp, K. H.) Snaith periodicity. 88j:55009

Johnson, Keith Peter The algebra of stable operations for p -local complex K -theory. 88h:55023

Kassel, Christian A Künneth formula for the cyclic cohomology of $\mathbb{Z}/2$ -graded algebras. 88a:18018

Knapp, K. H. See Crabb, M. C., 88j:55009

Kucharz, Wojciech Vector bundles over real algebraic surfaces and threefolds. 88g:14024

Kuhn, Nicholas J. The mod p K -theory of classifying spaces of finite groups. 88g:55008

Vogel, Pierre See Assadi, A. H., 88m:57047

19M05 Miscellaneous applications of K-theory

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Alperin, Roger C. (with Dennis, R. Keith; Oliver, Robert; Stein, Michael R.) SK_1 of finite abelian groups. II. 88g:18010

Anderson, Douglas R. (with Munkholm, Hans Jørgen) A geometric construction of the boundedly controlled Whitehead group. 88f:57033a
(with Munkholm, Hans Jørgen) An introduction to boundedly controlled simple homotopy theory. 88f:57033b

Andrzejewski, Paweł The equivariant Wall finiteness obstruction and Whitehead torsion. 88c:57020

Cappell, Sylvain (with Weinberger, Shmuel) A geometric interpretation of Siebenmann's periodicity phenomenon. 88f:57040

Dennis, R. Keith See Alperin, Roger C.; et al., 88g:18010

Illman, Sören A product formula for equivariant Whitehead torsion and geometric applications. 88c:57018

Kwasik, Sławomir Low-dimensional concordances, Whitney towers and isotopies. 88d:57016

Lack, Wolfgang The transfer maps induced in the algebraic K_0 - and K_1 -groups by a fibration. I. 88d:18007

Milgram, R. James Surgery with finite fundamental group. (See 88b:57001)

Munkholm, Hans Jørgen See Anderson, Douglas R., 88f:57033a and 88f:57033b

Oliver, Robert Torsion in homotopy equivalences of S^1 -bundles. 88d:57019

See also Alperin, Roger C.; et al., 88g:18010

Pekonen, Osmo E. T. Invariants secondaires de fibrés plats. (English summary) [Secondary invariants of flat bundles] 88e:58100

Sharko, V. V. K -theory and Morse theory. I. (Russian) 88f:57057a
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Stein, Michael R. See Alperin, Roger C.; et al., 88g:18010

Steinberger, Mark (with West, James) Equivariant handles in finite group actions. 88f:57041

Weinberger, Shmuel See Cappell, Sylvain, 88f:57040

West, James See Steinberger, Mark, 88f:57041

Yamasaki, Masayuki L -groups of crystallographic groups. 88c:57017

20-XX Group theory and generalizations

20-00 Handbooks, dictionaries, and other reference works

Items secondarily classified 20-00

Müller, Horst ★ Diskrete algebraische Strukturen. I, II. (German) [Discrete algebraic structures. I, II] 88k:00001

20-01 Elementary exposition; textbooks

Kaluzhnin, L. A. (with Sushchanskii, V. I.) ★ Transformationen und Permutationen. (German) [Transformations and permutations] 88h:20001

Ledermann, Walter ★ Introduction to group characters. 88f:20001

Scott, W. R. ★ Group theory. 88d:20001

Sushchanskii, V. I. See Kaluzhnin, L. A., 88h:20001

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Hilton, Peter An introduction to the homology theory of groups. 88c:20061

Năstăsescu, Constantin (with Niță, C.; Vraciu, C.) ★ Bazele algebrei. Vol. I. (Romanian) [The foundations of algebra. Vol. I] 88m:00007

Niță, C. See Năstăsescu, Constantin; et al., 88m:00007

Shafarevich, I. R. ★ Современные проблемы математики. Фундаментальные направления. Том II. (Russian) [Current problems in mathematics. Fundamental directions. Vol. II] 88i:00007

Vraciu, C. See Năstăsescu, Constantin; et al., 88m:00007

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Itogi Nauki i Tekhniki See Shafarevich, I. R., 88i:00007

20-02 Advanced exposition (research surveys, monographs, etc.)

Altman, Simon L. ★ Rotations, quaternions, and double groups. 88c:20001

Brown, Kenneth S. ★ Когомология групп. (Russian) [Cohomology of groups] 88c:20001

Camina, A. R. (with Whelan, E. A.) ★ Linear groups and permutations. 88c:20002

Curtis, Charles W. (with Reiner, Irving) ★ Methods of representation theory. Vol. II. 88f:20002

(Fuks, D. B.) See Brown, Kenneth S., 88c:20001

Karpilovsky, Gregory ★ Structure of blocks of group algebras. 88k:20001

Lyndon, Roger C. Problems in combinatorial group theory. 88f:20003

Lyubarskii, G. Ya. ★ Теория групп и физика. (Russian) [Group theory and physics] 88b:20001

Merzlyakov, Yu. I. ★ Рациональные группы. (Russian) [Rational groups] 88f:20004

Reiner, Irving See Curtis, Charles W., 88f:20002

Thomas, Charles B. ★ Characteristic classes and the cohomology of finite groups. 88f:20005

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Zhong, Ji New progress in Pólya's theory. 88g:20001

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Chen, Jin Quan (with Gao, Mei Juan; Ma, Guang Qun) The representation group and its application to space groups. 88g:20024

Conway, J. H. (with Curtis, R. T.; Norton, S. P.; Parker, R. A.; Wilson, Robert A.) ★ Atlas of finite groups. 88g:20025

Curtis, R. T. See Conway, J. H.; et al., 88g:20025

Gao, Mei Juan See Chen, Jin Quan; et al., 88g:20024

Howie, James How to generalize one-relator group theory. 88j:20027

Ma, Guang Qun See Chen, Jin Quan; et al., 88g:20024

Norton, S. P. See Conway, J. H.; et al., 88g:20025

Parker, R. A. See Conway, J. H.; et al., 88g:20025

Pastijn, Francis (with Petrich, Mario) ★ Regular semigroups as extensions. 88f:20079

Petrich, Mario See Pastijn, Francis, 88f:20079

Robinson, Derek J. S. Infinite factorized groups. (Italian summary) 88f:20043

(Thackray, J. G.) See Conway, J. H.; et al., 88g:20025

Wilson, Robert A. See Conway, J. H.; et al., 88g:20025

20-03 Historical (must also be assigned at least one classification number from Section 01)

Items secondarily classified 20-03

Dehn, Max ★ Papers on group theory and topology. 88d:01041

- (Hansen, V. L.) See Nielsen, Jakob, 88a:01070a and 88a:01070b
 Nielsen, Jakob ★ Jakob Nielsen: collected mathematical papers. Vol. 1. 88a:01070a
 ★ Jakob Nielsen: collected mathematical papers. Vol. 2. 88a:01070b
 (Schröter, Otto) See Dehn, Max, 88d:01041
 (Stillwell, John) See Dehn, Max, 88d:01041
 Zappa, Guido The Italian contribution to group theory from its origins until 1939. (Italian) 88e:01035

20-04 Explicit machine computation and programs (not the theory of computation or programming)

- Dufner, Julius Elementare Algorithmen aus der Gruppentheorie. [Elementary algorithms from group theory] 88c:20003
 Ostermann, Th. ★ Charaktertafel von Sylownormalisatoren sporadischer einfacher Gruppen. (German) [Character tables of Sylow normalizers of sporadic simple groups] 88g:20002
 Zabolytny, P. A. An algorithm for comparison for identity of lowest groups of transformations and antitransformations derived from finite groups of arbitrary transformations. (Russian) 88a:20001

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- Amunátegui, G. Iommi (with Speiser, D.) Algorithmes pour calculer les caractères irréductibles: groupes de Weyl $W(A_{n-1}) = S_n$, $W(B_n) = Z_2 \wr S_n$, $W(G_2) = d_6$. [Algorithms for computing irreducible characters: the Weyl groups $W(A_{n-1}) = S_n$, $W(B_n) = Z_2 \wr S_n$, $W(G_2) = d_6$] 88d:20022
 Butler, Gregory Data structures and algorithms for cyclically extended Schreier vectors. 88c:20001
 Lask, Ewing (with McFadden, Robert) Using automated reasoning tools: a study of the semigroup F_2B_2 . 88m:20119
 McFadden, Robert See Lask, Ewing, 88m:20119
 Speiser, D. See Amunátegui, G. Iommi, 88d:20022

20-06 Proceedings, conferences, etc.

- (Aschbacher, Michael) See Geometries and groups, 88j:20002 and 88k:20004
 Campbell, C. M. See Robertson, E. F., 88c:20004b and Proceedings: Conference on groups, 88c:20005
 (Chernikov, S. N.) See Structure of groups and the properties of their subgroups, 88b:20003
 (Chevalley, Claude) See Seminar: Finite groups, 88f:20006
 (Cohen, Arjeh M.) See Geometries and groups, 88j:20002 and 88k:20004
 (Corsini, Pierluigi) See Hypergroups, other multivalued structures and their applications, 88g:20004
 (Fong, Paul) See Conference: Representations of Finite Groups, 88k:20002 and 88k:20003
 (Gersten, S. M.) See Combinatorial group theory and topology, 88c:20005 and Essays in group theory, 88c:20004
 (Goberstein, Simon M.) See Semigroups and their applications, 88d:20002
 (Grendlinger, Martin) See Algorithmic problems in the theory of groups and semigroups, 88j:20001
 (Higgins, Peter M.) See Semigroups and their applications, 88d:20002
 (Kantor, William M.) See Geometries and groups, 88j:20002 and 88k:20004
 (Kegel, O. H.) See Group theory, 88g:20003
 (Koh, S. S.) See Invariant theory, 88i:20001
 (Lyapin, E. S.) See Semigroups and partial groupoids, 88k:20005
 (Menegazzo, F.) See Group theory, 88g:20003
 Robertson, E. F. (with Campbell, C. M.) Groups—St. Andrews 1985. 88c:20004b
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 (Saluk, M. I.) See Arithmetic and subgroup structure of finite groups, 88e:20003
 (Shemetkov, L. A.) See Problems in algebra, 88b:20002
 (Skornyakov, L. A.) See Abelian groups and modules, 88e:20002
 (Stallings, John R.) See Combinatorial group theory and topology, 88c:20005
 (Starostin, A. I.) See Structural problems in group theory, 88f:20007
 (Zacher, G.) See Group theory, 88g:20003
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- Abelian groups and modules ★ Абелевы группы и модули. (Russian) [Abelian groups and modules] 88e:20002
 Algorithmic problems in the theory of groups and semigroups ★ Алгоритмические проблемы теории групп и полугрупп. (Russian) [Algorithmic problems in the theory of groups and semigroups] 88j:20001
 Alta, Utah ★ Combinatorial group theory and topology. 88c:20005
 Annals of Mathematics Studies ★ Combinatorial group theory and topology. 88c:20005
 Arcata, Calif. ★ The Arcata Conference on Representations of Finite Groups. 88k:20002
 ★ The Arcata Conference on Representations of Finite Groups. 88k:20003
 Arithmetic and subgroup structure of finite groups ★ Арифметическое и подгрупповое строение конечных групп. (Russian) [The arithmetic and subgroup structure of finite groups] 88e:20003
 Bressanone ★ Group theory. 88g:20003
 Chico, Calif. ★ Semigroups and their applications. 88d:20002
 Combinatorial group theory and topology ★ Combinatorial group theory and topology. 88c:20005
 Conference:
 Algebraic theory of semigroups and its applications ★ Semigroups and their applications. 88d:20002
 Combinatorial group theory and topology ★ Combinatorial group theory and topology. 88c:20005
 Group theory ★ Group theory. 88g:20003
 Groups ★ Proceedings of groups—St. Andrews 1985. 88c:20005

Conference: (cont'd.)

- Groups—St. Andrews 1985 ★ Groups—St. Andrews 1985. 88c:20004a
 Hypergroups and correlated arguments ★ Ipergruppi, altre strutture multivoche e loro applicazioni. (Italian) [Hypergroups, other multivalued structures and their applications] 88g:20004
 Representations of Finite Groups ★ The Arcata Conference on Representations of Finite Groups. 88k:20002
 ★ The Arcata Conference on Representations of Finite Groups. 88k:20003
 Essays in group theory ★ Essays in group theory. 88e:20004
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 Hypergroups, other multivalued structures and their applications ★ Ipergruppi, altre strutture multivoche e loro applicazioni. (Italian) [Hypergroups, other multivalued structures and their applications] 88g:20004
 Invariant theory ★ Invariant theory. 88i:20001
 Lecture Notes in Mathematics ★ Group theory. 88g:20003
 ★ Invariant theory. 88i:20001
 Noordwijkerhout ★ Geometries and groups. 88j:20002
 ★ Geometries and groups. 88k:20004
 Problems in algebra ★ Вопросы алгебры. Вып. 2. (Russian) [Problems in algebra. No. 2] 88b:20002
 Proceedings:
 Conference on groups ★ Proceedings of groups—St. Andrews 1985. 88c:20005
 Proceedings of Symposia in Pure Mathematics ★ The Arcata Conference on Representations of Finite Groups. 88k:20002
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 Semigroups and partial groupoids ★ Полугруппы в частные группиды. (Russian) [Semigroups and partial groupoids] 88k:20005
 Semigroups and their applications ★ Semigroups and their applications. 88d:20002
 Seminar:
 Claude Chevalley ★ Séminaire sur les groupes finis. Tome III. (French) [Seminar on finite groups. Vol. III] 88f:20006
 Finite groups ★ Séminaire sur les groupes finis. Tome III. (French) [Seminar on finite groups. Vol. III] 88f:20006
 Gorn' algebraic ★ Арифметическое и подгрупповое строение конечных групп. (Russian) [The arithmetic and subgroup structure of finite groups] 88e:20003
 St. Andrews ★ Proceedings of groups—St. Andrews 1985. 88c:20005
 ★ Groups—St. Andrews 1985. 88c:20004a
 Structural problems in group theory ★ Структурные вопросы теории групп. (Russian) [Structural problems in group theory] 88f:20007
 Structure of groups and the properties of their subgroups ★ Строение групп и свойства их подгрупп. (Russian) [The structure of groups and the properties of their subgroups] 88b:20003
 Theory of semigroups and its applications ★ Теория полугрупп и ее приложения. (Russian) [Theory of semigroups and its applications] 88c:20006
 ★ Теория полугрупп и ее приложения. (Russian) [Theory of semigroups and its applications] 88f:20008
 Udine ★ Ipergruppi, altre strutture multivoche e loro applicazioni. (Italian) [Hypergroups, other multivalued structures and their applications] 88g:20004
 Workshop:
 Geometries and groups, finite and algebraic ★ Geometries and groups. 88j:20002
 ★ Geometries and groups. 88k:20004

Items secondarily classified 20-06

- (Cohen, Arjeh M.) See Algebraic groups Utrecht 1986. 88f:17001
 (Hesselink, Wim H.) See Algebraic groups Utrecht 1986. 88f:17001
 (van der Kallen, W.) See Algebraic groups Utrecht 1986. 88f:17001
 (Springer, T. A.) See Algebraic groups Utrecht 1986. 88f:17001
 (Strooker, J. R.) See Algebraic groups Utrecht 1986. 88f:17001

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- Algebraic groups Utrecht 1986 ★ Algebraic groups Utrecht 1986. 88f:17001
 Birthday:
 Springer, Tonny Albert ★ Algebraic groups Utrecht 1986. 88f:17001
 Group and algebraic combinatorial theory ★ Group and algebraic combinatorial theory. (Japanese) 88k:00020
 Lecture Notes in Mathematics ★ Algebraic groups Utrecht 1986. 88f:17001
 Symposium:
 Algebraic groups ★ Algebraic groups Utrecht 1986. 88f:17001
 Utrecht ★ Algebraic groups Utrecht 1986. 88f:17001

20Axx Foundations

20A05 Axiomatics and elementary properties

- Acevedo, Francisco See Lezama, Carlos; et al. (Not in MR)
 Avendaño, Enrique See Lezama, Carlos; et al. (Not in MR)
 Lezama, Carlos (with Acevedo, Francisco; Avendaño, Enrique) The group $(Z_n^*, \cdot, 1)$. (Spanish) (Not in MR)
 Salomaa, K. (with Stern, Manfred) A note on the group-theoretic isomorphism theorems. 88d:20003
 Stern, Manfred See Salomaa, K., 88d:20003

20A10 Metamathematical considerations {For word problems, see 20F10.}

Items secondarily classified 20A10

- (Friedman, Harvey M.) See Stanley, Lee J., 88b:03073
 Howard, Paul E. (with Yorke, Mary) Maximal p -subgroups and the axiom of choice. 88c:04005
 The existence of level sets in a free group implies the axiom of choice. 88j:04006
 Khisamiev, N. G. Hierarchies of torsion-free abelian groups. (Russian) 88c:03063
 Molokov, A. V. Prime models of theories of abelian groups. (Russian) 88f:03029
 Stanley, Lee J. Borel diagonalization and abstract set theory: recent results of Harvey Friedman. 88b:03073
 Yorke, Mary See Howard, Paul E., 88c:04005

20A15 Applications of logic to group theory

- Leinen, Felix Existentially closed locally finite p -groups. 88b:20004
 Nowinski, Ladimir On the number of squares in a group. 88a:20002
 Thomas, Simon Complete universal locally finite groups of large cardinality. 88b:20005

Items secondarily classified 20A15

- Baudisch, Andreas On Lascar rank in nonmultidimensional ω -stable theories. 88k:03068
 Berline, Chantal (with Lascar, Daniel) Des gros sous-groupes abéliens pour les groupes superstables. (English summary) [Big abelian subgroups for superstable groups] 88i:03058
 Bogomolov, V. S. Categorical polygons over a countable group. (Russian) 88m:03052
 Dekker, J. C. E. Isols and Burnside's lemma. 88a:03104
 Haug, Frieder Zur Modelltheorie von Kranzprodukten. [On the model theory of wreath products] 88i:03059
 Hrushovski, U. (with Pillay, Anand) Weakly normal groups. 88e:03051
 Katsov, E. B. Categoricity of the theory of polygons. (Russian) 88m:03053
 Lascar, Daniel See Berline, Chantal, 88i:03058
 Macpherson, H. D. Groups of automorphisms of \aleph_0 -categorical structures. 88d:20007
 Meirembekov, K. A. On the preservation of stability in a finite extension of a group. (Russian) 88i:03054
 Pillay, Anand Superstable groups of finite rank without pseudoplanes. 88b:03051
 First order topological structures and theories. 88k:03084
 See also Hrushovski, U., 88e:03051
 Sabbagh, Gabriel Propriétés élémentaires des groupes polycycliques et de certains de leurs invariants. (English summary) [First-order properties of polycyclic groups and of some of their invariants] 88f:20049
 Shelah, Saharon (with Stepráns, Juris) Extraspecial p -groups. 88d:20058
 Stepráns, Juris See Shelah, Saharon, 88d:20058
 Takeuti, Gaisi Boolean simple groups and Boolean simple rings. 88m:03074
 Tölls, Theodore Some interconnections between group theory and logic. 88e:03050

20A99 None of the above, but in this section

- Rendi, B. See Rendi, D., 88f:20009
 Rendi, D. (with Rendi, B.) Multimorphisms of group and the generalized inverse. (Romanian summary) 88f:20009

20Bxx Permutation groups

Items secondarily classified 20Bxx

- Kaluzhnia, L. A. (with Sushchanskii, V. I.) ★ Transformationen und Permutationen. (German) [Transformations and permutations] 88k:20001
 Sushchanskii, V. I. See Kaluzhnia, L. A., 88k:20001

20B05 General theory for finite groups

- Aschbacher, Michael Chromatic geometry. 88k:20006
 Baumgartner, Karlheinz Zur Unauflösbarkeit der symmetrischen Gruppe S_n ($n > 4$). [On the nonsolvability of the symmetric group S_n ($n > 4$)] 88e:20006
 Beck, István (with Moran, Gadi) Introducing disjointness to a sequence of transpositions. 88e:20007
 Brenner, J. L. (with Evans, Ronald J.) Even permutations as a product of two elements of order five. 88g:20005
 Butler, Gregory Data structures and algorithms for cyclically extended Schreier vectors. 88m:20001
 Cameron, Peter J. Regular orbits of permutation groups on the power set. 88a:20003
 See also Chen, Jin Zhi, 88m:20002
 Chen, Jin Zhi A comment on a necessary and sufficient condition for transitive permutation group: "Finite permutation groups and finite simple groups" [Bull. London Math. Soc. 13 (1981), no. 1, 1–22; MR 83m:20008] by P. J. Cameron. 88m:20002
 Evans, Ronald J. See Brenner, J. L., 88g:20005
 Ifin, V. I. (with Takmakov, A. S.) Simple primitive groups of permutations of small degrees. (Russian) 88m:20003
 Krämer, Helmut (Noch) ein Beweis des Burnside-Lemmas. [(Still) another proof of the Burnside lemma] 88i:20002
 Macbeath, A. M. Superimprimitive 2-generator finite groups. 88d:20004
 Moran, Gadi See Beck, István, 88e:20007
 Takmakov, A. S. See Ifin, V. I., 88m:20003

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- Groszek, M. (with Laver, Richard) Finite groups of OD-conjugates. 88e:03078
 Jerrum, Mark A compact representation for permutation groups. 88c:68055

- Karaivanova, Mariya A. An example of mathematical modeling in the elementary theory of music. (Bulgarian. English summary) 88c:00022
 Laver, Richard See Groszek, M., 88e:03078
 Li, Xue Liang (with Lin, Guo Ning) On graceful permutation. (Chinese summary) 88k:05008
 Lin, Guo Ning See Li, Xue Liang, 88k:05008

20B07 General theory for infinite groups

- Cameron, Peter J. (with Johnson, Kenneth Walter) An investigation of countable B -groups. 88j:20003
 Johnson, Kenneth Walter See Cameron, Peter J., 88j:20003
 Macpherson, H. D. Infinite permutation groups of rapid growth. 88d:20005

Items secondarily classified 20B07

- Dmitriev, V. I. See Ryzhikov, V. V., 88k:20014
 Haunschild, Wilfried Zwei Dualräume der unendlichen, symmetrischen Gruppe. [Two dual spaces of the infinite, symmetric group] 88a:22015
 Mycielski, Jan Representations of infinite permutations by words. 88e:20044
 Rabinovich, E. B. de Bruijn's problem on imbedding for infinite permutation groups. (Russian. English summary) 88m:20005
 Ryzhikov, V. V. (with Dmitriev, V. I.) Generalization of the Chevalley and von Neumann problems. (Russian) 88k:20014

20B10 Characterization theorems

- Rouse, Christian Groupes imprimitifs de degré impair. [Imprimitive groups of odd degree] 88a:20004

Items secondarily classified 20B10

- Fomin, A. N. T_1 -subgroups. (Russian) 88j:20020
 Hurd, Spencer Divisibility in α -primitive lattice-ordered permutation groups. 88a:06023

20B15 Uniprimitive groups

- Jones, G. A. (with Soomro, Khuda Dino) The maximality of certain wreath products in alternating and symmetric groups. 88b:20006
 Kantor, William M. Primitive permutation groups of odd degree, and an application to finite projective planes. 88b:20007
 Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) On maximal subgroups and maximal factorizations of almost simple groups. (See 88k:20003)
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 Praeger, Cheryl E. See Liebeck, Martin W.; et al., (88k:20003)
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 Siemons, Johannes (with Wagner, Ascher) On finite permutation groups with the same orbits on unordered sets. 88a:20005
 Soomro, Khuda Dino Nonabelian Burnside groups of certain order. 88k:20007
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- Cameron, Peter J. (with Johnson, Kenneth Walter) An investigation of countable B -groups. 88j:20003
 Johnson, Kenneth Walter See Cameron, Peter J., 88j:20003
 Praeger, Cheryl E. (with Saxl, Jan; Yokoyama, Kazuhiro) Distance transitive graphs and finite simple groups. 88c:05062
 Saxl, Jan See Praeger, Cheryl E.; et al., 88c:05062
 Yokoyama, Kazuhiro See Praeger, Cheryl E.; et al., 88c:05062

20B20 Multiply transitive finite groups

- Babai, L. (with Seress, Ákos) On the degree of transitivity of permutation groups: a short proof. 88k:20002
 Fiori, Carla (with Zironi, Fernando) Existence and construction of sharply 1-transitive permutation subsets. (Italian. English summary) 88k:20008
 Quattrocchi, Pasquale Over the nonexistence of sharply 3-transitive permutation sets containing sharply 2-transitive permutation subsets. 88f:20010
 Rosati, Luigi Antonio On sharply k -transitive ($k \geq 3$) permutation sets. (Italian. English summary) 88k:20009
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 Yoshizawa, Mitsuo On some sharply t -transitive sets. 88k:20010
 Zironi, Fernando See Fiori, Carla, 88k:20008

Items secondarily classified 20B20

- Isbell, John A class of doubly regular polyhedral surfaces. 88a:57007
 Korchmaros, G. 2-transitive abstract ovals of odd order. 88k:51018
 Lancellotti, Paola Transitive extensions of an infinite set of permutations. (Italian. English summary) 88j:20004
 Szabó, László Triply transitive algebras. 88i:08004

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- Böhm, L. (with Bohnenstengel, W.) Über die Eindeutigkeit einer Einbettung einer Klasse von scharf zweifach transitiven Permutationsgruppen in scharf dreifach transitive Permutationsgruppen. [On the uniqueness of an imbedding of a class of sharply doubly transitive permutation groups into sharply triply transitive permutation groups] 88d:20006
- Bohnenstengel, W. See Böhm, L., 88d:20006
- Lancellotti, Paola Transitive extensions of an infinite set of permutations. (Italian. English summary) 88j:20004
- Macpherson, H. D. Groups of automorphisms of \aleph_0 -categorical structures. 88d:20007
- Wähling, H. Lokal endliche, scharf zweifach transitive Permutationsgruppen. [Locally finite, sharply doubly transitive permutation groups] 88d:20008

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- Hickin, Kenneth Relatively homogeneous locally finite permutation groups. 88b:20044
- Strambach, Karl Multiplikationen mit großen Automorphismengruppen. [Multiplications with large automorphism groups] 88g:51041

20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51-XX.]

- Behrendt, Gerhard Equivalence systems with finitely many relations. 88d:20009
- Bertani, Laura P -near-Steiner-systems and Frobenius groups. (Italian summary) 88a:20006
- Buekenhout, F. (with Delandtsheer, A.; Doyen, Jean) Finite linear spaces with flag-transitive and locally primitive groups. 88b:20006
- Delandtsheer, A. See Buekenhout, F.; et al., 88b:20006
- Doyen, Jean See Buekenhout, F.; et al., 88b:20006
- Hille, Monika (with Wefelscheid, Heinrich) Sharply 3-transitive groups generated by involutions. 88a:20007
- Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) Distance transitive graphs with symmetric or alternating automorphism group. 88f:20011
- Praeger, Cheryl E. See Liebeck, Martin W.; et al., 88f:20011
- Rallera, Aldo Some coincidences of 5-products of five values of a parameter. (Italian. English summary) 88f:20012
- Saxl, Jan See Liebeck, Martin W.; et al., 88f:20011
- Shlyaf, A. Z. Torsion-free modules with finite automorphism groups over rings of algebraic numbers. (Russian) 88i:20003
- Vamou, M. Automorphisms and isometries of some modular algebras. 88a:20008
- Wefelscheid, Heinrich See Hille, Monika, 88a:20007

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- Barker, George Phillip (with Kezlan, Thomas P.) The automorphism group of a matrix algebra. 88h:16029
- Bartolone, C. (with Ostrom, T. G.) Translation planes of order q^3 which admit $SL(2, q)$. 88a:51010
- Bartolone, Federico Finite projective planes of class II₁ in the Lenz-Barlotti classification, and their collineation groups. (Italian) 88e:51012
- Baumann, Ulrike (with Lesch, Manfred; Schmeichel, Irmgard) Zentren von Gruppen der farbtreuen Automorphismen. (English and Russian summaries) [Centers of groups of color-preserving automorphisms] 88c:05053
- Božik, Zdravka The classification of Hadamard block designs $H(27)$ on which an elementary abelian Singer group operates. (Serbo-Croatian summary) 88k:05023
- Brand, Neal (with Huffman, W. Cary) Mendelsohn designs admitting the affine group. 88k:05024
- Cigle, V. A study of full collineation group of the projective plane of order 26. 88d:51007
- Delandtsheer, A. (with Doyen, Jean; Siemons, Johannes; Tamburini Bellani, Maria Chiara) Doubly homogeneous $2-(v, k, 1)$ designs. 88b:05023
- Delgado, Alberto (with Goldschmidt, D.; Stellmacher, B.) ★ Groups and graphs: new results and methods. 88a:05076
- Dempwolff, U. Linear groups with large cyclic subgroups and translation planes. 88m:20109
- Doyen, Jean See Delandtsheer, A.; et al., 88b:05023
- Dür, Arne The automorphism groups of Reed-Solomon codes. 88c:94026
- Eldswick, J. A. Cubelike puzzles—what are they and how do you solve them? 88b:20043
- Faradzhev, I. A. (with Ivanov, Aleksandr Anatol'evich; Ivanov, Andrei Vladimirovich) Distance-transitive graphs of valency 5, 6 and 7. 88a:05077
- (Fischer, Bernd) See Delgado, Alberto; et al., 88a:05076
- Glynn, David G. Rings of geometries. I. 88g:51011
- Goldschmidt, D. See Delgado, Alberto; et al., 88a:05076
- Gol'fand, Ya. Yu. Description of the subrings of $V(S_{p_1} \times S_{p_2} \times \cdots \times S_{p_n})$. (Russian) 88m:05047
- Gonçalves, Adilson (with Ho, Chat Yin) On flag collineations of finite projective planes. 88c:51006
- Grupp, Harald The elementary abelian Steiner systems $S(2, 4, 9)$. 88c:05023
- Ho, Chat Yin See Gonçalves, Adilson, 88c:51006
- Huffman, W. Cary See Brand, Neal, 88k:05024
- Iofanova, M. E. See Ivanov, Aleksandr Anatol'evich, 88m:05048
- Ivanov, Aleksandr Anatol'evich (with Iofanova, M. E.) Biprimitive cubic graphs. (Russian) 88m:05048
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- Ivanov, Andrei Vladimirovich See Faradzhev, I. A.; et al., 88a:05077
- Johnson, Norman Lloyd¹ Projective planes of prime order p that admit collineation groups of order p^2 . 88m:51011
- Kantor, William M. Primitive permutation groups of odd degree, and an application to finite projective planes. 88b:20007
- Karzel, Helmut J. Couplings and derived structures. 88g:51031
- Katsura, Masashi Input sets and automorphism groups of strongly connected automata. 88m:68044

- Key, Jennifer D. (with Siemons, Johannes; Wagner, Ascher) Regular sets on the projective line. 88b:51012
- Kezlan, Thomas P. See Barker, George Phillip, 88h:16029
- Kokhov, V. A. Cycle indices of automorphism groups of cubic graphs. (Russian) 88g:05069
- Lesch, Manfred See Baumann, Ulrike; et al., 88c:05053
- Ngo Duc Tan Trivalent graphic primitive minimal transitive permutation groups. (Russian. English summary) 88g:20006
- Ostrom, T. G. See Bartolone, C., 88a:51010
- Palfy, P. P. Isomorphism problem for relational structures with a cyclic automorphism. 88i:05097
- Palistrant, A. F. Application of two-dimensional and three-dimensional crystallographic P -symmetry groups to the study of multidimensional symmetry groups. 88k:20072
- Pfalzgraf, J. On geometries associated to group operations. 88m:51009
- Pouzet, Maurice (with Rosenberg, I. G.) Sperner properties for groups and relations. 88a:06006
- Praeger, Cheryl E. On automorphism groups of imprimitive symmetric graphs. 88g:05070 (with Saxl, Jan; Yokoyama, Kazuhiro) Distance transitive graphs and finite simple groups. 88c:05062
- Rosenberg, I. G. See Pouzet, Maurice, 88a:06006
- Rudnikitskii, O. I. On the basis invariants, in a six-dimensional unitary space, of the Mitchell reflection group. (Russian) 88m:11049
- Saxl, Jan See Praeger, Cheryl E.; et al., 88c:05062
- Schmeichel, Irmgard See Baumann, Ulrike; et al., 88c:05053
- Schulz, Ralph-Harold On translation transversal designs with $\lambda > 1$. 88m:05025
- Segev, Yoav On the uniqueness of the Co_3 2-local geometry. 88m:20022
- Shaw-Taylor, John Automorphism groups of primitive distance-bitransitive graphs are almost simple. 88i:05098
- Siemons, Johannes Tactical decompositions in finite incidence structures. (Italian summary) 88c:51010
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- Stellmacher, B. See Delgado, Alberto; et al., 88a:05076
- Stroth, G. Some sporadic geometries having C_3 -residues of type A_7 . 88g:51013
- Tamburini Bellani, Maria Chiara See Delandtsheer, A.; et al., 88b:05023
- Tonchev, Vladimir D. Hadamard matrices of order 36 with automorphisms of order 17. 88a:05032
- Steiner triple systems of order 21 with automorphisms of order 7. 88d:05028
- Wagner, Ascher Orbits on finite incidence structures. 88i:51015
- See also Key, Jennifer D.; et al., 88b:51012
- Wajima, Masayuki Automorphism groups of certain nonassociative noncommutative algebras. 88i:17002
- Weiss, Richard Mark On a theorem of Goldschmidt. 88k:05095
- Yokoyama, Kazuhiro See Praeger, Cheryl E.; et al., 88c:05062
- Zappa, Guido Applications of finite group theory to partial planes. (Italian) 88m:51003
- Zara, François Une caractérisation des graphes associés aux groupes de Fischer. (English summary) [A characterization of graphs associated with Fischer groups] 88a:05079

20B27 Infinite automorphism groups [See also 12F10.]

- Droste, Manfred The normal subgroup lattice of 2-transitive automorphism groups of linearly ordered sets. 88a:20008
- Evans, David M. A note on automorphism groups of countably infinite structures. 88k:20011
- Thomas, Simon The infinite case of the edge-orbit conjecture. 88k:20012

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- Adeleke, S. A. (with Dummett, M. A. E.; Neumann, Peter M.) On a question of Frege's about right-ordered groups. 88j:06045
- Alper, Theodore M. A classification of all order-preserving homeomorphism groups of the reals that satisfy finite uniqueness. 88j:06040
- Böhm, L. (with Bohnenstengel, W.) Über die Eindeutigkeit einer Einbettung einer Klasse von scharf zweifach transitiven Permutationsgruppen in scharf dreifach transitive Permutationsgruppen. [On the uniqueness of an imbedding of a class of sharply doubly transitive permutation groups into sharply triply transitive permutation groups] 88d:20006
- Bohnenstengel, W. See Böhm, L., 88d:20006
- Delgado, Alberto (with Goldschmidt, D.; Stellmacher, B.) ★ Groups and graphs: new results and methods. 88a:05076
- Droste, Manfred Partially ordered sets with transitive automorphism groups. 88c:06002
- Dummett, M. A. E. See Adeleke, S. A.; et al., 88j:06045
- (Fischer, Bernd) See Delgado, Alberto; et al., 88a:05076
- Goldschmidt, D. See Delgado, Alberto; et al., 88a:05076
- Hille, Monika (with Wefelscheid, Heinrich) Sharply 3-transitive groups generated by involutions. 88a:20007
- Millionschikov, V. M. Linear systems of differential equations and automorphisms of vector bundles. I. (Russian. Kazakh summary) 88h:34007
- Linear systems of differential equations and automorphisms of vector bundles. II. (Russian. Kazakh summary) 88h:34008
- Morozov, A. S. On computable groups of automorphisms of models. (Russian) 88k:03076
- Neumann, Peter M. See Adeleke, S. A.; et al., 88j:06045
- Pittaluga, Marianna On the group of automorphisms of a power series ring. 88i:13005
- Stellmacher, B. See Delgado, Alberto; et al., 88a:05076
- Wähling, H. Lokal endliche, scharf zweifach transitive Permutationsgruppen. [Locally finite, sharply doubly transitive permutation groups] 88d:20008
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20B30 Symmetric groups, general

- Droste, Manfred Squares of conjugacy classes in the infinite symmetric groups. 88j:20005
- Faradzhev, I. A. See Ivanov, Andrei Vladimirovich, 88k:20013

- Gao, Lu (with Zha, Jian Guo) Solving the equation $x^n = \sigma$ in the symmetric group S_n . (Chinese. English summary) 88h:20003
- Ivanov, Andrei Vladimirovich (with Faradzhev, I. A.) Ranks and subdegrees of symmetric groups acting on partitions. (Russian) 88k:20013
- Lulevicius, Arunas (with Özyaydin, Murad) Duality in orbit spaces. 88d:20010
- Özyaydin, Murad See Lulevicius, Arunas, 88d:20010
- Rabinovich, E. B. de Bruijn's problem on imbedding for infinite permutation groups. (Russian. English summary) 88m:20005
- Sushchanskii, V. I. (with Voskanyan, R. A.) Systems that generate symmetric and alternating groups consisting of cycles of equal length. (Russian) 88g:20007
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- Zha, Jian Guo See Gao, Lu, 88h:20003

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- Droste, Manfred (with Shelah, Saharon) On the universality of systems of words in permutation groups. 88b:20055
- Edelman, Paul (with Greene, Curtis) Balanced tableaux. 88b:05012
- Givental, A. B. Moments of random variables and the equivariant Morse lemma. (Russian) 88g:58019
- Greene, Curtis See Edelman, Paul, 88b:05012
- Lentoudis, Paul (with Tits, J.) Sur le groupe des automorphismes de certains produits en couronne. (English summary) [On the automorphism group of certain wreath products] 88m:20061
- Mania, Yu. I. (with Shekhtman, V. V.) Higher Bruhat orderings connected with the symmetric group. (Russian) 88f:06001
- Ryöm, Tae Sön The conjugacy class number of $\sqrt[k]{a}$ ($a \in S_n$, $k \geq 2$) in the symmetric group S_n . (Korean. English summary) 88g:05013
- Sagan, Bruce E. Shifted tableaux, Schur Q -functions, and a conjecture of R. Stanley. 88f:05011
- Shekhtman, V. V. See Mania, Yu. I., 88f:06001
- Shelah, Saharon See Droste, Manfred, 88b:20055
- Tits, J. See Lentoudis, Paul, 88m:20061
- Volynets, L. M. The number of solutions of the equation $x^i = e$ in a symmetric group. (Russian) 88a:11096

20B35 Subgroups of symmetric groups

- Beasley, L. B. (with Brenner, J. L.; Erdős, Paul; Szalay, M.; Williamson, Alan Glynn) Generation of alternating groups by pairs of conjugates. 88j:20006
- Bercov, Ronald D. (with Proctor, Robert A.) Solution of a combinatorially formulated monodromy problem of Eisenbud and Harris. 88j:20007
- Bianchi, Maria Grazia (with Gillio Berta Mauri, Anna) On q -Carter subgroups of S_n and A_n . (Italian. English summary) 88j:20008
- Brenner, J. L. See Beasley, L. B.; et al., 88j:20006
- Dixon, John D. (with Neumann, Peter M.; Thomas, Simon) Subgroups of small index in infinite symmetric groups. 88i:20004
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- Erdős, Paul See Beasley, L. B.; et al., 88j:20006
- Evans, David M. Subgroups of small index in infinite general linear groups. 88i:20005
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- Ryzhikov, V. V. (with Dmitriev, V. I.) Generalization of the Chevalley and von Neumann problems. (Russian) 88k:20014
- Shi, Wu Jie A characteristic property of A_n . 88k:20015
- Szalay, M. See Beasley, L. B.; et al., 88j:20006
- Thomas, Simon See Dixon, John D.; et al., 88i:20004
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- Williamson, Alan Glynn See Beasley, L. B.; et al., 88i:20005
- Zhdan-Pushkin, V. V. (with Ustimenko, V. A.) Maximality of some classical transformation groups. (Russian) 88f:20013
- Zimmerman, Jay Complete groups with nonabelian composition factors. 88e:20009

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- Abello, James M. Algorithms for consistent sets (extended abstract). 88b:90016
- Astie-Vidal, A. (with Chifflet, J.) Distance-transitive graphs and the problem of maximal subgroups of symmetric groups. 88d:05076
- Brenner, J. L. (with Evans, Ronald J.; Silberger, D. M.) The universality of words $x^r y^s$ in alternating groups. 88a:20047
- Chifflet, J. See Astie-Vidal, A., 88d:05076
- Evans, Ronald J. See Brenner, J. L.; et al., 88a:20047
- Felt, Walter (with Vojta, Paul) Examples of some Q -admissible groups. 88g:12006
- Leinen, Felix Chief series and right regular representations of finite p -groups. 88m:20040
- Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) Distance transitive graphs with symmetric or alternating automorphism group. 88f:20011
- Praeger, Cheryl E. See Liebeck, Martin W.; et al., 88f:20011
- Saxl, Jan See Liebeck, Martin W.; et al., 88f:20011
- Silberger, D. M. See Brenner, J. L.; et al., 88a:20047
- Vojta, Paul See Felt, Walter, 88g:12006

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- Cameron, Peter J. Some permutation representations of a free group. 88m:20006
- Drápal, Aleš (with Kepka, Tomáš) Parity of orthogonal automorphisms. 88j:20009
- Driscoll, James R. (with Furst, Merrick L.) Computing short generator sequences. 88d:20011
- Furst, Merrick L. See Driscoll, James R., 88d:20011

- Han, Ying See Li, Jun Jie; et al., 88a:20010
- Kepka, Tomáš See Drápal, Aleš, 88j:20009
- Key, Jennifer D. (with Simons, Johannes) Closure properties of the special linear groups. 88a:20009
- (with Simons, Johannes) On the k -closure of finite linear groups. (Italian summary) 88g:20008
- Li, Jun Jie (with Han, Ying; Zhuang, Qin) Expressions for seminormal units. (Chinese. English summary) 88a:20010
- Nebbia, Claudio Groups of isometries of trees with simply transitive subgroups. (Italian summary) 88m:20007
- Simons, Johannes See Key, Jennifer D., 88a:20009 and 88g:20008
- Zhuang, Qin See Li, Jun Jie; et al., 88a:20010

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- Bannai, Eiichi (with Ito, Tatsuhiro) The study of distance-regular graphs from the algebraic (i.e., character theoretical) viewpoint. (See 88k:20003)
- Brunner, Norbert Mappings on quasiminimal sets. 88e:03074
- Cherlin, Gregory L. (with Lachlan, A. H.) Stable finitely homogeneous structures. 88f:03023
- Girstmair, Kurt On invariant polynomials and their application in field theory. 88i:12001
- Ito, Tatsuhiro See Bannai, Eiichi, 88k:20003
- Lachlan, A. H. See Cherlin, Gregory L., 88f:03023
- Luce, R. Duncan Uniqueness and homogeneity of ordered relational structures. 88h:06027
- Magliveras, Spyros S. (with Oberg, B. A.; Surkan, A. J.) A new random number generator from permutation groups. (Italian summary) 88j:65013
- Mazzola, G. ★ Gruppen und Kategorien in der Musik. (German) [Groups and categories in music] 88f:00025
- Oberg, B. A. See Magliveras, Spyros S.; et al., 88j:65013
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20Cxx Representation theory of groups [See also 19A22 (for representation rings and Burnside rings.)]

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- Curtis, Charles W. (with Reiner, Irving) ★ Methods of representation theory. Vol. II. 88f:20002
- Reiner, Irving See Curtis, Charles W., 88f:20002

20C05 Group rings of finite groups and their modules [See also 16A26.]

- Allen, P. J. (with Hobby, C.) Units in integral group rings of some metacyclic groups. 88h:20004
- (with Hobby, C.) A note on the unit group of ZS_n . 88c:20008
- Barlotti, Marco Faithful simple modules for the nonabelian group of order pq . 88k:20016
- Berele, Allan (with Regev, Amitai) Hook Young diagrams with applications to combinatorics and to representations of Lie superalgebras. 88i:20006
- Bhandari, Ashwani K. (with Passi, I. B. S.) Residual solvability of the unit groups of rational group algebras. 88h:20005
- Bier, Thomas Totient numbers for cyclic group rings. 88k:20017
- Blau, Harvey I. On block induction. 88c:20009
- Bovdi, A. A. A unitary subgroup of the multiplicative group of the integer group ring of a cyclic group. (Russian) 88m:20008
- Cibils, Claude Extending self-dual modules. (See 88k:20002)
- Étendre les représentations auto-duales. (English summary) [Extending self-dual representations] 88b:20009
- Cliff, G. (with Hartley, Brian) Sjogren's theorem on dimension subgroups. 88k:20018
- Erdmann, Karin On modules with cyclic vertices in the Auslander-Reiten quiver. 88c:20010
- Gudvok, P. M. (with Sapuzhak, T. M.) Irreducible representations of finite groups over principal ideal domains. (Russian. English summary) 88h:20006
- Harris, Morton E. A characterization of free modules over algebras of finite groups. 88a:20011
- Hartley, Brian Relative higher relation modules, and a property of irreducible K -representations of $GL_n(K)$. 88c:20011
- See also Cliff, G., 88k:20018
- Hobby, C. See Allen, P. J., 88c:20008 and 88h:20004
- Hoechsmann, K. (with Sehgal, Sudarshan K.) Units in regular elementary abelian group rings. 88b:20010
- Horibe, Kazunori (with Tahara, Ken-ichi) The stable behavior of the augmentation quotients of some groups of order p^4 . I. 88m:20009a
- Karpilovsky, Gregory Blocks and vertices of twisted group algebras. 88c:20012a
- Defect groups of blocks of twisted group algebras. 88c:20012b
- Extending indecomposable modules over twisted group algebras. 88c:20012c
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- Koshitani, Shigeo The Loewy structure of projective indecomposable modules for some modular group algebras. (See 88k:20002)
- The nilpotency index of the radicals of group algebras of finite groups whose Sylow 3-subgroups are extra-special of order 27 of exponent 3. 88m:20010
- Landrock, Peter The modular Hecke algebra of a Sylow p -subgroup. 88b:20011
- Licht, Bernd Über zerfallende Involutionen. [On decomposing involutions] 88b:20012
- Manz, Olaf (with Staszewski, Reiner) On the Loewy-series of the modular group algebra of a finite p -group. 88a:20012
- Marciński, Z. (with Ritter, Jürgen; Sehgal, Sudarshan K.; Weiss, Alfred R.) Torsion units in integral group rings of some metabelian groups. II. 88k:20019
- Meltzer, Hagen Survey on the representation type of group algebras. 88g:20009
- Mollev, Todor Zh. Multiplicative groups of semisimple group algebras. (Russian) 88c:20013

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Nachev, Nako A. (with Mollov, Todor Zh.) An isomorphism of modular group algebras of finite 2-groups for which the order of the quotient-group with respect to the center is equal to four. (Russian) 88d:20012

Okuyama, Tetsuro (with Tsushima, Yukio) On the theorems of Gashütz and Willems. 88i:20007

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Plesken, W. See Pahlings, Herbert, 88k:20020

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Roggenkamp, K. W. (with Scott, Leonard L.) The isomorphism problem for integral group rings of finite nilpotent groups. 88e:20010

Rosenbaum, Kurt Involutions in abelschen Gruppenalgebren. (Czech summary) [Involutions in abelian group algebras] 88h:20007

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Scott, Leonard L. See Roggenkamp, K. W., 88e:20010

Sehgal, Sudarshan K. (with Weiss, Alfred R.) Torsion units in integral group rings of some metabelian groups. 88e:20015

See also Hoechsmann, K., 88b:20010 and Marciniaik, Z.; et al., 88k:20019

Stammach, Urs (with Stricker, M.) A remark on the Loewy-layers of the modular group algebra of a finite p -group. 88h:20013

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- Humphreys, John Blocks of projective representations of the symmetric groups. (See 88k:20002)
- Karpilovsky, Gregory Compounding block theory for projective representations of p -nilpotent groups. 88i:20014
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- Amunátegui, G. Iommi (with Speiser, D.) Algorithmes pour calculer les caractères irréductibles: groupes de Weyl $W(A_{n-1}) = S_n$, $W(B_n) = Z_2 \wr S_n$, $W(G_2) = d_6$. [Algorithms for computing irreducible characters: the Weyl groups $W(A_{n-1}) = S_n$, $W(B_n) = Z_2 \wr S_n$, $W(G_2) = d_6$] 88d:20022
- Berele, Allan A Schensted-type correspondence for the symplectic group. 88b:20027
- Chuvaeva, I. V. See Ivanov, Aleksandr Anatol'evich, 88k:20033
- Dixmier, J. Sur les invariants du groupe symétrique dans certaines représentations. [Symmetric group invariants in certain representations] 88a:20023
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- Hoffman, Peter (with Humphreys, John) Hopf algebras and projective representations of $G \wr S_n$ and $G \wr A_n$. 88b:20014
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- Zaleski, A. E. Fixed points of elements of order p in complex representations of finite Chevalley groups of characteristic p . (Russian. English summary) 88g:20023

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- Berele, Allan Construction of Sp-modules by tableaux. 88i:20062
- Beyer, W. A. (with Louck, J. D.; Stein, Paul R.) Group theoretical basis of some identities for the generalized hypergeometric series. 88j:33003
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- Dipper, Richard (with James, Gordon) Blocks and idempotents of Hecke algebras of general linear groups. 88m:20084
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- Kerov, S. V. (with Kirillov, A. N.; Reshetikhin, N. Yu.) Combinatorics, the Bethe ansatz and representations of the symmetric group. (Russian. English summary) 88i:82021
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- Randić, Milan On the evaluation of the characteristic polynomial via symmetric function theory. 88f:05079
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- Sagan, Bruce E. Shifted tableaux, Schur Q -functions, and a conjecture of R. Stanley. 88f:05011
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- Aroyo, M. I. See Angelova, M. N.; et al., 88i:81006
- Cao, Yu Fang See Lin, Hal Lun, 88m:20020
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- Gould, M. D. Reduced characters for finite groups. 88c:20021
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- Barannik, L. F. Projective unitary-anti-unitary representations of finite abelian groups. (Russian) 88g:81036
- Berele, Allan (with Regev, Amitai) Hook Young diagrams with applications to combinatorics and to representations of Lie superalgebras. 88i:20006
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- Chacón, E. (with Hess, P. O.; Moshinsky, M.) Collectivity and geometry. V. Spectra and shapes in the two-dimensional case. 88m:81152
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- De Meyer, H. See Kota, V. K. B.; et al., 88h:81237 and Vanthournout, J.; et al., 88m:81154
- Di Francesco, P. (with Saleur, H.; Zuber, J. B.) Modular invariance in nonminimal two-dimensional conformal theories. 88k:81194

- Florek, W. (with Lulek, T.) Symmetry properties of the density of states in the Brillouin zone for a one-dimensional periodic Heisenberg magnet. 88k:82133
- Golterman, Maarten F. L. Irreducible representations of the staggered fermion symmetry group. 88a:81208
- Gürsey, Feza See Alhassid, Y.; et al., 88h:81204
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- Hecht, K. T. (with Le Blanc, Richard; Rowe, D. J.) New perspective on the $U(n)$ Wigner-Racah calculus. I. Vector coherent state theory and construction of Gelfand bases. 88h:81051
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- Li, Jun Jie (with Han, Ying; Zhuang, Qin) Expressions for seminormal units. (Chinese. English summary) 88a:20010
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- Moshinsky, M. See Chacón, E.; et al., 88m:81152
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- Vanthournout, J. (with Van der Jeugt, Joris; De Meyer, H.; Vanden Bergh, G.) Totally symmetric irreducible representations of the group $SO(6)$ in the principal $SO(3)$ subgroup basis. 88m:81154
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- Zuber, J. B. See Di Francesco, P.; et al., 88h:81194

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- Benyash-Krivets, V. V. See Platonov, V. P., 88d:20023
- Cabello, Marisol (with Soto-Andrade, Jorge) Construction de représentations par contraction et division. [Construction of representations by contraction and division] 88e:20030
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- Platonov, V. P. (with Benyash-Krivets, V. V.) Rings of characters of n -dimensional representations of finitely generated groups. (Russian) 88d:20023
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- Deng, Hong Jun (with Pan, Fu Zheng) An application of group representation theory to direct product networks. (Chinese. English summary) 88k:94038
- Farahat, H. K. Polynomial functions and representations. 88j:26014
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- Lamos D., Henry The generalized Schur lemma. (Spanish) (Not in MR)
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- Enguehard, Michel Caractérisation des groupes de Ree. (English summary) [Characterization of Ree groups] 88e:20014
- Fan, Paul S. A note on pushing up. 88b:20028
- Fomin, A. N. 2-components of the centralizers of involutions in finite groups. (Russian) 88i:20021
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- Helanko, H. Finite complete groups. (Italian summary) 88i:20023
- Hering, Christoph (with Liebeck, Martin W.; Saxl, Jan) The factorizations of the finite exceptional groups of Lie type. 88d:20026
- Kitazume, Masaaki The Conway-Norton algebras for $\Omega^-(6,3)$, $\Omega(7,3)$, F_{24} , and their full automorphism groups. 88d:20027
- Lowe, Hartmut Die Einfachheit der Gruppe A_5 . [The simplicity of the group A_5] 88d:20028
- Li, Shi Rong (with Li, Shi Yu) Finite groups in which every nonmaximal proper subgroup is 3-closed. (Chinese) 88c:20022
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- Liebeck, Martin W. The local maximal subgroups of the finite simple groups. (See 88k:20003)
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- Makhnev, A. A. 3-characterizations of finite groups. (Russian) 88c:20023
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- Peterfalvi, Thomas Le théorème de Bender-Suzuki. I, II. (English summary) [The Bender-Suzuki theorem. I, II] 88h:20018
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- Arad, Zvi See Fisman, Elsa, 88e:20022
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- Fomin, A. N. Components of groups. (Russian) 88f:20058
- Kantor, William M. Polynomial-time algorithms for finding elements of prime order and Sylow subgroups. 88a:20031
- Kleidman, Peter B. The maximal subgroups of the finite 8-dimensional orthogonal groups $P\Omega_8^+(q)$ and of their automorphism groups. 88i:20070
- Kulkarni, Ravi S. Symmetries of surfaces. 88m:57051
- Liebeck, Martin W. (with Praeger, Cheryl E.; Saxl, Jan) On maximal subgroups and maximal factorizations of almost simple groups. (See 88k:20003)
- (with Saxl, Jan; Seitz, Gary M.) On the overgroups of irreducible subgroups of the finite classical groups. 88i:20071
- Praeger, Cheryl E. See Liebeck, Martin W.; et al., (88k:20003)
- Saxl, Jan See Liebeck, Martin W.; et al., 88i:20071 and (88k:20003)
- Seitz, Gary M. See Liebeck, Martin W.; et al., 88i:20071
- Zenkov, V. I. Finite groups with regular intersections of Sylow 2-subgroups. (Russian) 88m:20044

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- Park, Seung Ahn On finite simple groups—the unitary groups $U_4(q)$. 88e:20015

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- Baumgartner, Karlheinz Zur Unauflösbarkeit der symmetrischen Gruppe S_n ($n > 4$). [On the nonsolvability of the symmetric group S_n ($n > 4$)] 88e:20006
- Beasley, L. B. (with Brenner, J. L.) Two-generator groups. IV. Conjugate pairs of generators in $PSL(2, p)$, $PSL(3, p)$. The spread of the Mathieu groups. Cospread. Outer dimension. 88f:20052
- Brenner, J. L. See Beasley, L. B., 88f:20052
- Gordano, Gabriele Finite groups with Lagrangian maximal subgroups. (Italian. English summary) 88e:20032
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- Li, Shi Rong (with Li, Shi Yu) Finite groups in which every nonmaximal proper subgroup is 3-closed. (Chinese) 88c:20022
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- Lebotzky, Alexander On a problem of Magnus. 88e:20030
- Mann, Arinoam Soluble subgroups of symmetric and linear groups. 88f:20032
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- Tong, Dao Rong A class of maximal subgroups in finite classical groups. 88f:20048

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- Buekenhout, F. (with Rees, Sarah) The subgroup structure of the Mathieu group M_{12} . 88m:20024
- Genchev, Ts. R. Factorizations of the sporadic simple groups. 88f:20031
- Griess, Robert L., Jr. The Schur multiplier of McLaughlin's simple group. Addendum: "Schur multipliers of the known finite simple groups. III" [Proceedings of the Rutgers group theory year, 1983–1984 (New Brunswick, N.J., 1983–1984), 69–80, Cambridge Univ. Press, Cambridge, 1985; MR 87g:20027]. 88d:20029
- Sporadic groups, code loops and nonvanishing cohomology. 88c:20024
- Ivanov, Aleksandr Anatol'evich (with Shpektorov, S. V.) A geometry for the O'Nan-Sims group, connected with the Petersen graph. (Russian) 88j:20014
- Khanfar, Mohammad I. A 28-dimensional representation in F_2 of a subgroup of the Rudvalis group. (Arabic summary) 88g:20026
- Kleidman, Peter B. (with Wilson, Robert A.) Corrigendum: "The maximal subgroups of F_{122} ". 88j:20015a
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- Mazurova, N. P. Subgroups of large finite groups and a problem of linear optimization. (Russian) 88m:20025
- Norton, S. P. (with Wilson, Robert A.) Maximal subgroups of the Harada-Norton group. 88b:20029
- Pahlings, Herbert The subgroup structure of the Hall-Janko group J_2 . 88g:20027
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- Weiss, Richard Mark A characterization and another construction of Janko's group J_3 . 88g:20028
- Wilson, Robert A. Maximal subgroups of sporadic groups. 88e:20016
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- Woldar, Andrew J. On the maximal subgroups of Lyons' group. 88b:20030

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- Beasley, L. B. (with Brenner, J. L.) Two-generator groups. IV. Conjugate pairs of generators in $PSL(2, p)$, $PSL(3, p)$. The spread of the Mathieu groups. Cospread. Outer dimension. 88f:20052
- Brenner, J. L. See Beasley, L. B., 88f:20052
- Chuvaeva, I. V. See Ivanov, Aleksandr Anatol'evich, 88k:20033
- Diawara, Ousmane Les caractères permutants primitifs du groupe sporadique de McLaughlin. [Simple permutation characters of the McLaughlin sporadic group] 88h:20009
- Fink, John B. (with Kallagher, Michael J.) Simple groups acting on translation planes. 88j:51009
- Harvey, J. A. Twisting the heterotic string. (See 88a:81006)
- Hoyden-Siedersleben, Gudrun (with Matzat, B. Heinrich) Realisierung sporadischer einfacher Gruppen als Galoisgruppen über Kreisteilungskörpern. [Realization of sporadic simple groups as Galois groups over cyclotomic fields] 88d:12001
- Ivanov, Aleksandr Anatol'evich (with Chuvaeva, I. V.) Action of the group M_{12} on Hadamard matrices. (Russian) 88k:20033
- Kallagher, Michael J. See Fink, John B., 88j:51009
- Matzat, B. Heinrich (with Zeh-Marschke, Andreas) Realisierung der Mathieugruppen M_{11} und M_{12} als Galoisgruppen über \mathbb{Q} . (English summary) [Realization of the Mathieu groups M_{11} and M_{12} as Galois groups over \mathbb{Q}] 88i:12008
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- Ostermann, Th. \star Charaktertafeln von Sylownormalisatoren sporadischer einfacher Gruppen. (German) [Character tables of Sylow normalizers of sporadic simple groups] 88g:20002
- Seicher, L. H. Presentations of some finite groups with applications to the O'Nan simple group. 88e:20036
- Zeh-Marschke, Andreas See Matzat, B. Heinrich, 88i:12008

20D10 Solvable groups, theory of formations, π -length, ranks, factorable groups, p -groups [See also 20F17.]

- Artemovich, O. D. Finite nonabelian p -groups with complemented nonabelian normal subgroups. (Russian) 88c:20025
- Bartolotti, Marco A note on the minimal normal Fitting class. (Italian summary) 88g:20029
- Beidleman, James C. (with Brewster, Ben; Hauck, Peter) Fitting functors in finite solvable groups. II. 88i:20026
- Berkovich, Ya. G. Finite groups with a minimal set of generators of maximum length. (Russian) 88g:20030
- Relations between some invariants of finite solvable groups. (Russian. English and Georgian summaries) 88k:20040
- Bialostocki, A. On the other $p^n q^b$ theorem of Burnside. 88c:20026
- Blackburn, Norman The derived group of a 2-group. 88d:20031
- Brewster, Ben (with Sehgal, Surinder) The Frattini argument and t -groups. 88g:20031
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- Chen, Zhi Jie On the prehomogeneous vector space $(GL(1) \times SL(3), \square \otimes (A_1 + A_2), V(1) \otimes V(7))$ ($p = 3$). (Chinese. English summary) **88b:32068**
- Cherednik, I. V. Irreducible representations of elliptic quantum R -algebras. (Russian) **88g:17006**
- Dixmier, J. Quelques résultats et conjectures concernant les séries de Poincaré des invariants des formes binaires. [Some results and conjectures concerning Poincaré series of invariants of binary forms] **88e:15011**
- Evens, Sam (with Bressler, Paul) On certain Hecke rings. **88e:17011**
- Frühlich, Albrecht \star Tame representations of local Weil groups and of chain groups of local principal orders. **88i:11090**
- Gelfand, I. M. (with Zelevinskii, A. V.) Representation models for classical groups and their higher symmetries. **88b:22022**
- Gross, Kenneth I. (with Kunze, Ray A.) Reciprocity theorems for the classical groups. I. The $GL(r, k)$ -subgroup of $GL(2r, k)$. **88d:22024**
- Haastert, Burkhard Über Differentialoperatoren und D-Moduln in positiver Charakteristik. (English summary) [On differential operators and D-modules in positive characteristic] **88i:14048**
- Hotta, Ryoshi Springer correspondences and the Harish-Chandra equation. (Japanese) **88h:22024**
- Humphreys, J. E. Cohomology of line bundles on G/B for the exceptional group G_2 . **88e:20043**
- Iduna, A. J. (with Morris, Alun O.) Some combinatorial results for Weyl groups. **88b:20077**
- Jantzen, Jens Carsten Beziehungen zwischen Darstellungstheorie und Kombinatorik. [Relations between representation theory and combinatorics] **88b:20018**
- Support varieties of Weyl modules. **88e:17008**
- Johnson H., Roberto Simple geometric spaces and Gelfand spaces. (Spanish) **88d:22012**
- Kawanaka, N. Generalized Gelfand-Graev representations of exceptional simple algebraic groups over a finite field. I. **88a:20058**
- Kazhdan, David A. (with Lusztig, George) Equivariant K -theory and representations of Hecke algebras. II. **88f:22054b**
- Kempf, G. R. Composition series for unipotent group varieties. **88d:20065**
- Knop, Friedrich (with Littelmann, Peter) Der Grad erzeugender Funktionen von Invariantenringen. [The degree of generating functions of rings of invariants] **88k:14028**
- Koshitani, Shigeo The Loewy structure of the projective indecomposable modules for $SL(3, 3)$ and its automorphism group in characteristic 3. **88b:20024**
- Kumar, Shrawan Demazure character formula in arbitrary Kac-Moody setting. **88i:17018**
- Kunze, Ray A. See Gross, Kenneth I. **88d:22024**
- Lakshmibai, Venkatarmani Geometry of G/P . VI. Bases for fundamental representations of classical groups. **88i:14064a**
- Geometry of G/P . VII. The symplectic group and the involution σ . **88i:14064b**
- Geometry of G/P . VIII. The groups $SO(2n+1)$ and the involution σ . **88i:14064c**
- Liebeck, Martin W. The affine permutation groups of rank three. **88m:20004**
- Littelmann, Peter See Knop, Friedrich. **88k:14028**
- Lusztig, George Equivariant K -theory and representations of Hecke algebras. **88f:22054a**
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- Magid, Andy R. Relation modules of pro-nilpotent groups. **88h:20053**
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- Opolka, Hans Thetafunktionen und Weil-Darstellungen proendlicher Gruppen. (English summary) [Theta functions and Weil representations of profinite groups] **88f:11044**
- Panyushev, D. I. Orbits of highest dimension of solvable subgroups of reductive linear groups and reduction for U -invariants. **88h:14047**
- Pyasetskii, V. S. Fundamental sets of triangular groups. (Russian) **88f:14043**
- Regev, Amital Sign trace identities. **88f:15046**
- Sato, Fumihiko Eisenstein series on semisimple symmetric spaces of Chevalley groups. **88h:22025**
- Seifert, Benedict G. Algèbres de Hecke et facteurs de type II_1 . (English summary) [Hecke algebras and factors of type II_1] **88b:17015**
- Seitz, Gary M. The maximal subgroups of classical algebraic groups. **88g:20092**
- Shi, Jian Yi Alcoves corresponding to an affine Weyl group. **88g:20103a**
- Sign types corresponding to an affine Weyl group. **88g:20103b**
- Shoji, Toshiaki Green functions of reductive groups over a finite field. **88m:20014**
- Soto-Andrade, Jorge Geometric Gelfand models. (Spanish) **88c:22007**
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- Theo, D. Projective representations of rotation subgroups of Weyl groups. **88g:20021**
- Umeda, Tôru On the conjugacy of nilpotent elements in the classical Lie algebras in relation to their representations. **88h:17008**
- Vavilov, N. A. Weight elements of Chevalley groups. (Russian) **88m:20093**
- Zelevinskii, A. V. See Gelfand, I. M. **88b:22022**

20G10 Cohomology theory

- Betley, Stanislaw Hyperbolic posets and homology stability for $O_{n,n}$. **88b:20066**
- Humphreys, J. E. Cohomology of line bundles on G/B for the exceptional group G_2 . **88e:20043**
- Kunkel, Paul J. Rational cohomology of algebraic solvable groups. **88i:20066**
- Milgram, R. James (with Priddy, Stewart B.) Invariant theory and $H^*(GL_n(F_p); F_p)$. **88j:20038**
- Priddy, Stewart B. See Milgram, R. James. **88j:20038**
- Qiu, Sen The cohomology of semisimple algebraic groups over an algebraically closed field of characteristic 0. (Chinese. English summary) **88k:20061**

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- Aisbett, Janet On K_3 of truncated polynomial rings. **88a:18012**
- Ariettaz, Dominique On the homology and cohomology of congruence subgroups. **88e:20048**
- Berrick, A. J. (with Keating, M. E.) The K -theory of triangular matrix rings. **88a:18013**
- Douai, Jean-Claude Cohomologie des schémas en groupes sur les courbes définies sur les corps quasi-finis et loi de réciprocité. [Cohomology of group schemes on curves defined over quasifinite fields and the reciprocity law] **88m:14036**
- Gekeler, Ernst-Ulrich Cohomologie des sous-groupes S -arithmétiques de $GL(2)$ sur un corps de fonctions. [Cohomology of S -arithmetic subgroups of $GL(2)$ over a function field] **88d:11114**
- Kaneda, Masaharu On the alcove identification operator of semisimple algebraic groups. **88d:20063**
- Keating, M. E. See Berrick, A. J. **88a:18013**
- Kempf, G. R. (with Ramanathan, Annamalai) Multicones over Schubert varieties. **88e:14067**
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- Ramanathan, Annamalai See Kempf, G. R. **88e:14067**
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- Yan, Jun Hu See Yun, Guo Hong; et al. **88a:81140**
- Yun, Guo Hong (with Wang, Wei Xi; Yan, Jun Hu) Monopoles and cohomology of the translation group. (Chinese. English summary) **88a:81140**

20G15 Linear algebraic groups over arbitrary fields

- Aschbacher, Michael Chevalley groups of type G_2 as the group of a trilinear form. **88g:20089**
- Chen, Cheng Dong (B, B) -double cosets for classical algebraic groups. (Chinese. English summary) **88j:20039**
- Chen, Zhi Jie A classification of irreducible prehomogeneous vector spaces over an algebraically closed field of characteristic 2. I. **88f:20061**
- A new prehomogeneous vector space of characteristic p . **88g:20090**
- Chen, Zhong Hu On the construction of simple groups over formally real fields. **88g:20091**
- Cohen, Arjeh M. (with Seitz, Gary M.) The r -rank of the groups of exceptional Lie type. **88k:20062**
- Du, Jie The Cartan invariants of $SL(4, 2^n)$. (Chinese. English summary) **88m:20088**
- Igusa, Jun-ichi On a certain class of prehomogeneous vector spaces. **88m:20089**
- Kempf, G. R. Composition series for unipotent group varieties. **88d:20065**
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- On linear p -groups. (Russian. English summary) **88m:20090**
- Li, Shang Zhi Maximal subgroups in classical groups over arbitrary fields. (See **88k:20003**)
- Maximal subgroups containing short-root subgroups in $PSp(2n, F)$. **88k:20063**
- MacLachlan, C. (with Reid, A. W.) Commensurability classes of arithmetic Kleinian groups and their Fuchsian subgroups. **88j:20040**
- Reid, A. W. See MacLachlan, C. **88j:20040**
- Seitz, Gary M. The maximal subgroups of classical algebraic groups. **88g:20092**
- See also Cohen, Arjeh M. **88k:20062**
- Semenov, A. A. Bruhat decomposition of root semisimple subgroups in the special linear group. (Russian) **88g:20093**
- Tits, J. Ensembles ordonnés, immeubles et sommes amalgamées. [Ordered sets, buildings and amalgamated sums] **88j:20041**
- Unipotent elements and parabolic subgroups of reductive groups. II. **88m:20091**
- Ustimenko, V. A. Some properties of the geometries of Chevalley groups and of their generalizations. (Russian) **88m:20092**
- Vavilov, N. A. Maximal subgroups of Chevalley groups containing a maximal split torus. (Russian) **88b:20067**
- Bruhat decomposition of one-dimensional transformations. (Russian. English summary) **88g:20094**
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- Aschbacher, Michael The 27-dimensional module for E_6 . I. **88h:20045**
- Hartley, Brian Relative higher relation modules, and a property of irreducible K -representations of $GL_n(K)$. **88c:20011**
- Levin, Frank (with Rosenberger, Gerhard) On power-commutative and commutation-transitive groups. **88h:20042**
- Merzlyakov, Yu. I. \star Рациональные группы. (Russian) [Rational groups] **88f:20004**
- de Oliveira, Graciano N. On groups of n -matrices. **88h:15030**
- Rosenberger, Gerhard See Levin, Frank. **88h:20042**
- Strickland, Elisabetta Schubert-type cells for complete quadrics. **88h:14034**
- Volklein, Helmut Lattice isomorphisms of Lie algebras and algebraic groups. **88c:17004**
- Zassenhaus, H. On Frobenius groups. II. Universal completion of nearfields of finite degree over a field of reference. **88i:12010**

20G20 Linear algebraic groups over the reals, the complexes, the quaternions

- Korlyukov, A. V. Finite linear groups over a field of characteristic zero which are generated by two-dimensional elements of orders 3 and 4. (Russian) **88k:20064**
 Finite linear groups generated by quadratic elements of order 4. (Russian. English summary) **88g:20095**
 Krupetskiĭ, S. L. Subgroups, containing a maximal torus, of the unitary group over a quaternion algebra. (Russian) **88m:20094**
 Magid, Andy R. Relation modules of pronipotent groups. **88h:20053**
 Rosenberger, Gerhard Some remarks on the paper of A. Majeed on freeness of the group (a^n, b^n) for some integer n ; $a, b \in \text{SL}(2, \mathbb{C})$. **88i:20067**
 Satarov, Zh. S. Defining relations of the orthogonal group over an ordered Euclidean field. (Russian) **88k:20065**

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- Balcerzyk, S. Coalgebra and algebra structure on representations of general complex linear groups. **88h:20017**
 Berteloot, F. Fonctions plurisousharmoniques sur $\text{SL}(2, \mathbb{C})$ invariantes par un sous-groupe monogène. [Plurisubharmonic functions on $\text{SL}(2, \mathbb{C})$ that are invariant under a cyclic subgroup] **88k:32048**
 Gerdner, N. L. Finite linear groups whose algebra of invariants is a complete intersection. (Russian) **88a:13020**
 Helmke, Uwe (with Shayman, Mark A.) The biflag manifold and the fixed points of a unipotent transformation on the flag manifold. **88g:14052**
 Kopplinen, M. On stable decomposition patterns of Weyl modules. **88d:20064**
 Olsson, Jörn B. Remarks on symbols, hooks and degrees of unipotent characters. **88g:20022**
 Shayman, Mark A. See Helmke, Uwe, **88g:14052**

20G25 Linear algebraic groups over local fields and their integers

- Borel, A. (with Prasad, Gopal) Sous-groupes discrets de groupes p -adiques à covolume borné. (English summary) [Discrete subgroups of p -adic groups with bounded covolume] **88m:20095**
 Bruhat, F. (with Tits, J.) Errata: "Group schemes and buildings of classical groups over a local field" [Bull. Soc. Math. France **112** (1984), no. 2, 259–301; MR **86i:20064**]. (French) **88k:20066**
 Kantor, William M. Reflections on concrete buildings. **88m:20096**
 Prasad, Gopal See Borel, A., **88m:20095**
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- Ginzburg, V. A. "Lagrangian" construction for representations of Hecke algebras. **88e:22022**
 Plymen, R. J. The reduced C^* -algebra of the p -adic group $\text{GL}(n)$. **88k:22030**
 Suzuki, Kazuo On the automorphisms of Chevalley groups over p -adic integer rings. **88g:20096**

20G30 Linear algebraic groups over global fields and their integers

- Ponomarev, K. N. ★ Группы точек алгебраических групп. (Russian) [Groups of points of algebraic groups] **88b:20068a**
 ★ Группы точек разрешимых алгебраических групп над алгебраическими полями. (Russian) [Groups of points of solvable algebraic groups over algebraic fields] **88b:20068b**
 ★ Абстрактные изоморфизмы разрешимых алгебраических групп, сохраняющие полупростоту. (Russian) [Abstract isomorphisms of solvable algebraic groups, which preserve semisimplicity] **88k:20068c**
 Sharomet, A. A. The congruence subgroup problem for solvable algebraic groups over global fields of positive characteristic. (Russian. English summary) **88m:20097**
 Venkataratnam, T. N. Zariski dense subgroups of arithmetic groups. **88i:20068**

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- Baily, Walter L., Jr. Maximal arithmetic groups: a correction: "On the theory of Hilbert modular functions. I. Arithmetic groups and Eisenstein series" [J. Algebra **90** (1984), no. 2, 567–605; MR **85j:11051**]. **88k:11031**
 Bayer-Fluckiger, E. Principe de Hasse faible pour les systèmes de formes quadratiques. [The weak Hasse principle for systems of quadratic forms] **88g:11015**
 Nori, Madhav V. On subgroups of $\text{GL}_n(\mathbb{F}_p)$. **88d:20068**
 Tavger, O. I. Profinite completions of solvable linear groups. (Russian. English summary) **88k:20051**

20G35 Linear algebraic groups over adèles and other rings and schemes

- An, Jian Bei See Tang, Xiang Pu, **88a:20055** and **88j:20045**
 Cao, Chong Guang (with Wang, Lu Qun) The normal subgroups of the symplectic group over a ring with 1 in its stable range. (Chinese) **88d:20066**
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 Automorphisms of two-dimensional projective linear groups over a class of full rings. (Chinese) **88j:20042**
 Ellers, Erich W. (with Ishibashi, Hiroyuki) Factorization of transformations over a local ring. **88k:20067**
 Golubchik, I. Z. (with Mikhalév, A. V.) Full subgroups of unitary groups over division rings. (Russian) **88j:20043**

- Ishibashi, Hiroyuki See Ellers, Erich W., **88k:20067**
 Li, Fu An The structure of symplectic groups over arbitrary commutative rings. **88m:20098**
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 (with Wan, Zhe Xian; Wu, Xiao Long) Automorphisms of $\text{PSL}(2, K)$ over skew fields. **88m:20099**
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 Splitthoff, Siegfried Finite presentability of Steinberg groups and related Chevalley groups. **88b:20069**
 Stewart, L. A. Hypercentrality and hypercyclicity in skew linear groups. **88j:20044**
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 Suzuki, Kazuo On the automorphisms of Chevalley groups over p -adic integer rings. **88g:20096**
 Tadel, Giovanni Normalité des groupes élémentaires dans les groupes de Chevalley sur un anneau. [Normality of elementary groups in Chevalley groups over a ring] **88a:20054**
 Tang, Xiang Pu (with An, Jian Bei) The structure of symplectic groups over semilocal rings. **88a:20055**
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 Yuan, Bing Cheng Generators theorem of strong transvections of linear group over local ring. (Chinese summary) **88j:20046**
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 Zhou, Li Guo A theorem on the generators of orthogonal groups over local rings. (Chinese) **88c:20054**

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- Kaskevič, V. I. (with Yanchevskii, V. I.) The structure of the general linear group and the special linear group over Henselian discretely valued Azumaya algebras. (Russian. English summary) **88k:16024**
 Kozlov, S. D. Finite minimal nonsolvable groups. (Russian) **88k:20068**
 Li, Fu An (with Liu, Mu Lan) A generalized sandwich theorem. **88b:20062**
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- Chen, Cheng Dong The conjugacy classes of $\text{SL}(n, q)$. (Chinese. English summary) **88i:20069**
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 Kosman, E. G. Construction of Sylow p -subgroups of the restricted linear group. (Russian) **88g:20099**
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 Li, Shu Qiong Some properties of the group $\text{GL}(m, q)$. (Chinese. English summary) **88h:20055**
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 Sarik, John Embedding the root group geometry of ${}^2F_4(q)$. (See **88e:20005**)
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- Singerman, David PSL(2, q) as an image of the extended modular group with applications to group actions on surfaces. 88d:20069
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- Aschbacher, Michael Chevalley groups of type G_2 as the group of a trilinear form. 88g:20089
 Beasley, L. B. (with Brenner, J. L.) Two-generator groups. IV. Conjugate pairs of generators in $PSL(2, p)$. $PSL(3, p)$. The spread of the Mathieu groups. Cospread. Outer dimension. 88f:20052
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 Hauenschild, Wilfried Der Primidealraum der C^* -Algebra und die unzerlegbaren Charaktere der Gruppe $GL(\infty, q)$. [The prime ideal space of the C^* -algebra and the indecomposable characters of the group $GL(\infty, q)$] 88f:22016
 Hée, Jean-Yves Sur l'opération d'un "complément de Levi" sur le "radical unipotent" dans un sous-groupe parabolique d'un groupe muni d'une donnée radicielle. [The action of Levi complements on unipotent radicals in parabolic subgroups of groups with root data] 88i:20022
 Humphreys, J. E. The Steinberg representation. 88e:20050
 Janiszczak, Ingo Irreducible periodic modules over $SL(m, q)$ in the describing characteristic. 88f:20022
 Key, Jennifer D. (with Simons, Johannes) Closure properties of the special linear groups. 88a:20009
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20G45 Applications to physics; explicit representations

Items secondarily classified 20G45

- Bratchikov, A. V. (with Tyutin, I. V.) Multiplicative renormalization of two-dimensional chiral theories. II. (Russian. English summary) 88m:81081
 Grosshans, Frank D. (with Rota, Gian-Carlo; Stein, Joel A.) \star Invariant theory and superalgebras. 88k:15035
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20G99 None of the above, but in this section

- Bürgstein, Hartmut (with Hesselink, Wim H.) Algorithmic orbit classification for some Borel group actions. 88k:20069
 Hesselink, Wim H. See Bürgstein, Hartmut, 88k:20069
 Kolchin, E. R. Differential algebraic groups. 88e:20057
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- Boseck, Helmut On graded algebraic groups. 88b:17037
 Pommerening, Klaus Ordered sets with the standardizing property and straightening laws for algebras of invariants. 88e:14059
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- Renner, Lex E. Connected algebraic monoids. 88i:20093
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- Gorbatshevich, V. V. On Lie groups that are transitive on compact three-dimensional forms of reductive Lie groups. (Russian) 88m:22011
- Hilgert, Joachim Maximal semigroups and controllability in products of Lie groups. 88m:22012
- Kondracki, Witold (with Rogulski, Jan) On conjugacy classes of closed subgroups. 88m:22013
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- Rogulski, Jan See Kondracki, Witold, 88m:22013
- Silva Leite, Fátima The uniform finite generation problem of Lie groups and its application to control systems. 88i:22016
- Torres Lopera, Juan Francisco The cohomology and geometry of Heisenberg-Reiter nilmanifolds. 88c:22009
- Trofimov, V. V. Group-theoretic characterization of the maximal exponent of a compact Lie group. (Russian) 88i:22017
- Zimmer, Robert J. Split rank and semisimple automorphism groups of G -structures. 88i:22018

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- Demys, K. Comment: "On the hyperbolic complex linear symmetry groups and their local gauge transformation actions" [J. Math. Phys. 26 (1985), no. 3, 404-406; MR 86h:83055] by Z. Z. Zhong. 88a:83062
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- Grensing, G. See Grensing, D., 88c:22008
- Guichardet, A. Théorie de Mackey et méthode des orbites selon M. Duflo. (English summary) [Mackey theory and the orbit method according to M. Duflo] 88b:22009
- McCrudden, M. See Dani, S. G., 88f:60014
- Savov, V. V. Spaces generated by the automorphisms of a Lie group, and their morphisms. (Russian) 88i:22013
- Tulczyjew, W. M. See Benenti, S., 88b:58045
- (Zhong, Zai Zhe) See Demys, K., 88a:83062

22E20 General properties and structure of other Lie groups

- Gonçalves, J. Z. See Mandel, Arnaldo, 88d:22016
- Mandel, Arnaldo (with Gonçalves, J. Z.) Construction of open sets of free k -tuples of matrices. 88d:22016

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- Borel, A. (with Prasad, Gopal) Sous-groupes discrets de groupes p -adiques à covolume borné. (English summary) [Discrete subgroups of p -adic groups with bounded covolume] 88m:20095
- Holmes, J. P. One parameter subsemigroups in locally complete differentiable semigroups. 88d:22004
- Labotzky, Alexander (with Mann, Avinoam) Powerful p -groups. II. p -adic analytic groups. 88f:20046
- Mann, Avinoam See Labotzky, Alexander, 88f:20046
- Prasad, Gopal See Borel, A., 88m:20095
- Tits, J. Ensembles ordonnés, immeubles et sommes amalgamées. [Ordered sets, buildings and amalgamated sums] 88j:20041
- Yamagishi, Hidenaga Anomalies, cocycles and causality. 88m:81128

22E25 Nilpotent and solvable Lie groups

- Arnal, D. (with Cortet, J.-C.) \ast -products in the method of orbits for nilpotent groups. 88a:22017
- Auslander, Louis (with Tolimieri, Richard) Ambiguity functions and group representations. 88f:22024
- Beals, Richard (with Gaveau, Bernard; Greiner, Peter C.; Vauthier, Jacques) The Laguerre calculus on the Heisenberg group. II. (French summary) 88a:22018
- Chen, Patrick B. (with Wu, T. S.) On full subgroups of solvable groups. 88c:22010
- Cortet, J.-C. See Arnal, D., 88a:22017
- García-Bullé, Mauricio (with Lassner, Wolfgang; Wolf, Kurt Bernardo) The metaplectic group within the Heisenberg-Weyl ring. 88c:22010
- Gaveau, Bernard See Beals, Richard; et al., 88a:22018
- Greiner, Peter C. See Beals, Richard; et al., 88a:22018
- Hangan, Théodor Groupes de type Heisenberg. [Heisenberg groups] 88i:22019
- Lassner, Wolfgang See García-Bullé, Mauricio; et al., 88c:22010
- Raschler, Hans (with Schempp, Walter) Fourier optics from the perspective of the Heisenberg group. (See 88c:78001)
- Saloff-Coste, Laurent Analyse sur les groupes de Lie nilpotents. (English summary) [Analysis on nilpotent Lie groups] 88j:22008
- Inégalités de Gagliardo-Nirenberg pour les groupes de Lie nilpotents. (English summary) [Gagliardo-Nirenberg inequalities on nilpotent Lie groups] 88j:22009

- Schempp, Walter Analog radar signal design and digital signal processing—a Heisenberg nilpotent Lie group approach. (See 88c:78001)
- See also Raschler, Hans, (88c:78001)

- Tolimieri, Richard See Auslander, Louis, 88f:22024

- Varopoulos, Nicholas Th. Analysis on nilpotent groups. 88h:22014
- Analyse sur les groupes de Lie non unimodulaires. (English summary) [Analysis on nonunimodular Lie groups] 88m:22014

- Vauthier, Jacques See Beals, Richard; et al., 88a:22018

- Wolf, Kurt Bernardo See García-Bullé, Mauricio; et al., 88c:22010

- Wu, T. S. See Chen, Patrick B., 88c:22010

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- Arnal, D. (with Gutt, S.) Décomposition de $L^2(G)$ et transformation de Fourier adaptée pour un groupe G nilpotent. (English summary) [Decomposition of $L^2(G)$ and adapted Fourier transform for a nilpotent group G] 88m:22015
- Daletskii, A. Yu. The quantum problem of moments. (Russian) 88f:47040
- Gavrilov, S. P. Left-invariant metrics on simply connected three-dimensional solvable Lie groups. (Russian) 88d:53048
- Gorbatshevich, V. V. On the number of Lie groups containing uniform lattices that are isomorphic to a given group. 88m:22024
- Gutt, S. See Arnal, D., 88m:22015
- Helfffer, Bernard (with Nourrigat, Jean) \ast Hypocoercivité maximale pour des opérateurs polynômes de champs de vecteurs. (French) [Maximal hypocoercivity for polynomial operators of vector fields] 88i:35029
- Kim, Hyuk Complete left-invariant affine structures on nilpotent Lie groups. 88c:53030
- Korányi, Adam (with Reimann, Hans Martin) Horizontal normal vectors and conformal capacity of spherical rings in the Heisenberg group. (French summary) 88e:22013
- Levichev, A. V. Left-invariant Lorentz order on the fundamental affine group. (Russian) 88j:53069
- Mori, Keiichi Trace formulas and virtual characters. 88k:22008
- Nourrigat, Jean See Helfffer, Bernard, 88i:35029
- Ostrovskii, V. L. Irreducible representations of a group of infinite upper triangular matrices. (Russian) 88a:22019
- Penny, Richard C. The structure of rational homogeneous domains in C^n . 88m:32059
- Ramsey, Thomas (with Weit, Yitzhak) Multipliers on Schwartz spaces of some Lie groups. 88g:43002
- Reimann, Hans Martin See Korányi, Adam, 88e:22013
- Reyes, Wilfred A note about Killing vector fields on $H(p, r)$. (Italian summary) 88c:53039
- Ryan, John Gerard Representative functions on discrete solvable groups. 88k:20024
- Schempp, Walter On Gabor information cells. 88c:94012
- Group theoretical methods in approximation theory, elementary number theory, and computational signal geometry. 88k:43011
- Sheu, Albert Jau-Liang A cancellation theorem for modules over the group C^* -algebras of certain nilpotent Lie groups. 88i:46093
- Classification of projective modules over the unitized group C^* -algebras of certain solvable Lie groups. 88i:46092
- Stempak, Krzysztof A weighted multiplier theorem for Rockland operators. 88h:47081
- Strambach, Karl Rechtsdistributive Multiplikationen auf homogenen Räumen. [Right-distributive multiplications on homogeneous spaces] 88d:51014
- Torres Lopera, Juan Francisco The cohomology and geometry of Heisenberg-Reiter nilmanifolds. 88c:22009
- Weit, Yitzhak See Ramsey, Thomas, 88g:43002

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- Progress in Mathematics See Helfffer, Bernard, 88i:35029

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-Type I representations, etc.)

- Arnal, D. (with Gutt, S.) Décomposition de $L^2(G)$ et transformation de Fourier adaptée pour un groupe G nilpotent. (English summary) [Decomposition of $L^2(G)$ and adapted Fourier transform for a nilpotent group G] 88m:22015
- Benson, Chal (with Ratcliff, G.) An invariant for unitary representations of nilpotent Lie groups. 88b:22008
- Corwin, Lawrence Kirillov orbits and direct integral decompositions on certain quotient spaces. 88i:22020
- Cygan, Jacek M. (with Richardson, Leonard F.) Global solvability on compact nilmanifolds of three or more steps. 88e:22011
- Guichardet, A. Théorie de Mackey et méthode des orbites selon M. Duflo. (English summary) [Mackey theory and the orbit method according to M. Duflo] 88b:22009
- Gutt, S. See Arnal, D., 88m:22015
- Ostrovskii, V. L. Irreducible representations of a group of infinite upper triangular matrices. (Russian) 88a:22019
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- See also Cygan, Jacek M., 88e:22011
- Schempp, Walter Time delay and Doppler frequency shift in radar/sonar detection, with application to Fourier optics. 88i:22021
- \ast Harmonic analysis on the Heisenberg nilpotent Lie group, with applications to signal theory. 88f:22025

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- Auslander, Louis (with Tolimieri, Richard) Ambiguity functions and group representations. 88f:22024
- Hô Hô'u Việt Sur la structure des C^* -algèbres d'une classe de groupes de Lie résolubles de dimension 3. [Structure of the C^* -algebras of a class of three-dimensional solvable Lie groups] 88f:22017

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Mori, Kichiro Homogeneous holomorphic vector bundles and the discrete series for connected unimodular Lie groups. 88j:22014

Complex geometry and Harish-Chandra modules. 88k:22009

Nomura, Takaaki Representations of a solvable Lie group on $\bar{\partial}_s$ cohomology spaces. 88E:22036

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22E30 Analysis on real and complex Lie groups [See also 33A75, 43-XX.]

Alexopoulos, Georges Fonctions harmoniques bornées sur les groupes résolubles. (English summary) [Harmonic functions bounded on solvable groups] 88m:22017

Clerc, Jean-Louis Le comportement à l'infini des fonctions de Bessel généralisées. II. (English summary) [The behavior at infinity of generalized Bessel functions. II] 88k:22002

Eguchi, Masaaki (with Koizumi, Shin; Tanaka, Shohei) A Hausdorff-Young inequality for the Fourier transform on Riemannian symmetric spaces. 88h:22015

Fan, Da Shan Convergence of Fourier series on compact Lie groups. (Chinese) 88a:22020

Faraut, Jacques (with Harzallah, Khelifa) ★ Deux cours d'analyse harmonique. (French) [Two courses on harmonic analysis] 88i:22022

Gaveau, Bernard (with Greiner, Peter C.; Vauthier, Jacques) Intégrales de Fourier quadratiques et calcul symbolique exact sur le groupe d'Heisenberg. (English summary) [Quadratic Fourier integrals and exact symbolic calculus on the Heisenberg group] 88e:22012

Gelfand, I. M. See Vasil'ev, V. A.; et al., 88d:22019

Głowacki, Paweł (with Hulanicki, Andrzej) A semigroup of probability measures with nonsmooth differentiable densities on a Lie group. 88i:22023

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Gross, Kenneth L. (with Richards, Donald St. P.) Special functions of matrix argument. I. Algebraic induction, zonal polynomials, and hypergeometric functions. 88m:22018

Harzallah, Khelifa Distributions invariantes: une introduction. [Invariant distributions: an introduction] (See 88i:22022)

See also Faraut, Jacques, 88i:22022

Helgason, S. Some results on Radon transforms, Huygens' principle and X-ray transforms. 88d:22017

Herz, Carl The Poisson kernel for $sl(3, \mathbb{R})$. 88g:22009

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Taylor, Michael E. ★ Noncommutative harmonic analysis. 88a:22021

Varopoulos, Nicholas Th. L'analyse sur les groupes de Lie unimodulaires. (English summary) [Analysis on unimodular Lie groups] 88h:22017

Fonctions harmoniques sur les groupes de Lie. (English summary) [Harmonic functions on Lie groups] 88f:22026

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Agranovski, M. L. Invariant spaces and function algebras on the Heisenberg group. (Russian) 88j:43004

Anker, Jean-Philippe (with Lohoué, Noël) Multiplicateurs sur certains espaces symétriques. [Multipliers on certain symmetric spaces] 88c:43008

Avdiushko, M. Concepts of generalized variation on Vilenkin groups and convergence of Fourier-Vilenkin series. 88j:43003

Ball, Joseph A. (with Helton, J. W.) Beurling-Lax representations using classical Lie groups with many applications. IV. $GL(n, \mathbb{R})$, $U^*(2n)$, $SL(n, \mathbb{C})$, and a solvable group. 88e:47016

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Debiard, Amédée (with Gaveau, Bernard) Noyaux de la chaleur, systèmes de racines, et espaces symétriques de type B_2 . (English summary) [Heat kernels for root systems and symmetric spaces of type B_2] 88b:58133

(with Gaveau, Bernard) Noyaux de la chaleur pour certaines équations hypergéométriques et application aux espaces symétriques de rang 1. (English summary) [Heat kernels of hypergeometric equations and application to rank 1 symmetric spaces] 88e:58062

Parties radiales des opérateurs invariants des espaces symétriques de type BC_p ; intégrales premières d'un hamiltonien à symétrie BC_p . (English summary) [Radial parts of invariant operators on BC_p symmetric spaces; integrals of motion of a quantum Hamiltonian with BC_p symmetry] 88g:58196

Dooley, Anthony H. Transferring L^p multipliers. (French summary) 88f:43007

van den Dries, R. J. C. H. Pseudodifferential operators on the circle and finite differences. 88m:47078

Eguchi, Masaaki (with Kumahara, Keisaku) A Hardy-Littlewood theorem for spherical Fourier transforms on symmetric spaces. 88e:43006

Faraut, Jacques Analyse harmonique et fonctions spéciales. [Harmonic analysis and special functions] (See 88i:22022)

Gaillard, Pierre-Yves Transformation de Poisson de formes différentielles. Le cas de l'espace hyperbolique. [Poisson transform of differential forms. The case of hyperbolic space] 88d:43011

Gaudry, Garth I. (with Pini, Rita) Motion groups and absolutely convergent Fourier transforms. 88k:43009

Gaveau, Bernard See Beals, Richard; et al., 88a:22018; Debiard, Amédée, 88b:58133 and 88e:58062

Gay, Roger See Berenstein, Carlos A., 88h:32014

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(with Graev, M. I.) Hypergeometric functions connected with the Grassmannian $G_{1,4}$. (Russian) 88g:32023

Giulini, Saverio (with Travaglini, Giancarlo) Sharp estimates for Lebesgue constants on compact Lie groups. 88d:43007

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Hba, Ahmed Analyse harmonique sur $SL(3, \mathbb{H})$. (English summary) [Harmonic analysis on $SL(3, \mathbb{H})$] 88i:43004

Helton, J. W. See Ball, Joseph A., 88e:47016

Herb, Rebecca A. (with Wolf, Joseph A.) Plancherel theorem for the universal cover of the conformal group. 88d:22022

Johnson, Kenneth D. Differential operators and Cartan motion groups. 88g:22013

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Molchanov, V. F. The Plancherel formula for pseudo-Riemannian symmetric spaces of rank 1. (Russian) 88f:22046

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Orloff, Jeremy Orbital integrals on symmetric spaces. 88k:43013

Osborne, M. Scott (with Warner, Garth) On the Dini calculus. 88a:42012

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Ramsey, Thomas (with Weit, Yitzhak) Multipliers on Schwartz spaces of some Lie groups. 88g:43002

Ricci, Fulvio (with Stein, E. M.) Harmonic analysis on nilpotent groups and singular integrals. I. Oscillatory integrals. 88g:42023

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Rockland, Charles Intrinsic nilpotent approximation. 88i:35032

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Sjögren, Peter Une remarque sur la convergence des fonctions propres du laplacien à valeur propre critique. [A remark on the convergence of the eigenfunctions of the Laplacian to a critical eigenvalue] **88f:31001**

Admissible convergence of Poisson integrals in symmetric spaces. **88g:43008**

Stanton, Robert J. Analytic extension of the holomorphic discrete series. **88b:22013**

Starkov, A. N. Spaces of finite volume. (Russian) **88f:22021**

Stein, E. M. See Ricci, Fulvio, **88g:42023**

Strichartz, Robert S. Harmonic analysis on Grassmannian bundles. **88b:43006**

Travaglino, Giancarlo Rearrangement of coefficients of Fourier series on SU_2 . **88b:43007**

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Unterberger, A. (with Unterberger, Julianne) A quantization of the Cartan domain $BDI(q=2)$ and operators on the light cone. **88b:58152**

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Vargas, Jorge Spherical functions. (Spanish) **88m:22008**

Varopoulos, Nicholas Th. Analysis on nilpotent groups. **88b:22014**

Vauthier, Jacques See Beals, Richard; et al., **88a:22018**

Warner, Garth On the determination of Harish-Chandra's β -function. **88f:22050**

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Wawrzyńczyk, Antoni Spectral analysis and synthesis on symmetric spaces. **88b:43006**

Weit, Yitzhak See Ramsey, Thomas, **88g:43002**

Wolf, Joseph A. See Herb, Rebecca A., **88d:22022**

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Xu, Chao Jiang Régularité des solutions d'équations aux dérivées partielles non linéaires associées à un système de champs de vecteurs. (English summary) [Regularity of the solutions of nonlinear partial differential equations associated with a system of vector fields] **88i:35033**

Xu, Zeng Fu See Zheng, Xue An; et al., **88b:43008**

Yamashita, Hiroshi On Whittaker vectors for generalized Gelfand-Graev representations of semisimple Lie groups. **88a:22028**

Zhao, He Sheng See Zheng, Xue An; et al., **88b:43008**

Zheng, Xue An The Riesz and Bessel transforms of functions on compact Lie groups. (Chinese) (Not in MR)

(with Xu, Zeng Fu; Zhao, He Sheng) Approximation by polynomials on compact Lie groups. I. Best uniform approximation to continuous functions. (Chinese. English summary) **88b:43008**

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22E35 Analysis on p -adic Lie groups [See also 11R56.]

Kutzko, Philipp Character formulas for supercuspidal representations of GL_n . I a prime. **88k:22003**

Pytlík, T. (with Szwarz, R.) An analytic family of uniformly bounded representations of free groups. **88e:22014**

Szwarc, R. See Pytlík, T., **88e:22014**

Talbotson, Mitchell H. Hardy spaces of harmonic functions on homogeneous isotropic trees. **88m:22021**

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Borm, G. F. A Fourier transformation on Q_p . (See **88g:11003**)

Julg, Pierre (with Valette, Alain) L'opérateur de co-bord toru sur un arbre, et le principe de Selberg. II. [Twisted coboundary operator on a tree and the Selberg principle. II] **88m:22041**

Kottwitz, Robert E. Base change for unit elements of Hecke algebras. **88i:11039**

Morita, Yasuo Analytic representations of SL_n over a p -adic number field. III. **88b:22019**

Su, Wei Yi The kernels of product type on local fields. II. **88d:43009**

Valette, Alain See Julg, Pierre, **88m:22041**

22E40 Discrete subgroups of Lie groups [See also 20Hxx and 32Nxx.]

Apanasov, B. N. Cusp ends of hyperbolic manifolds. **88b:22012**

Chinburg, Ted (with Friedman, Eduardo) The smallest arithmetic hyperbolic three-orbifold. **88a:22022**

Clozel, Laurent On the cuspidal cohomology of arithmetic subgroups of $SL(2n)$ and the first Betti number of arithmetic 3-manifolds. **88m:22022**

Deligne, Pierre (with Mostow, G. D.) Monodromy of hypergeometric functions and nonlattice integral monodromy. **88a:2203a**

Floyd, William J. (with Plotnick, Steven P.) Growth functions on Fuchsian groups and the Euler characteristic. **88m:22023**

Friedman, Eduardo See Chinburg, Ted, **88a:22022**

Goldman, William M. (with Millson, John J.) Local rigidity of discrete groups acting on complex hyperbolic space. **88f:22027**

Gorbachev, V. V. On the number of Lie groups containing uniform lattices that are isomorphic to a given group. **88m:22024**

Grayson, Daniel R. Reduction theory using semistability. II. **88e:22015**

Hillier, Howard Crystallography and cohomology of groups. **88m:22025**

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Mostow, G. D. Generalized Picard lattices arising from half-integral conditions. **88a:22023b**

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Ratcliffe, John G. Euler characteristics of 3-manifold groups and discrete subgroups of $SL(2, \mathbb{C})$. **88f:22028**

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Zimmer, Robert J. Lattices in semisimple groups and invariant geometric structures on compact manifolds. **88i:22025**

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- Li, Guang Hua (with Sun, Zeng Zhuo) The CG coefficient for the nonspecial Gelfand basis of the group $SU(m/n)$ for the five-particle system. **88c:81037**
- Lin, Hai Lam (with Cao, Yu Fang) Unitary-group approach (UGA) to the configuration interaction (CI) problems of the many-electron systems: a graphical formula in terms of Young tableaux. **88m:20020**
- (with Cao, Yu Fang) New method for evaluation of the matrix representation of the generators in the unitary-group approach. **88m:22032**
- Loehr, C. P. (with Rosenbaum, M.) Graded spinors as an underlying geometry for extended supersymmetries. **88i:53117**
- Lukierski, Jerzy Two supergeometries from fourfold gradings of superalgebras. **88a:17039**
- Lyubarskii, G. Ya. ★ Теория групп и физика. (Russian) [Group theory and physics] **88b:20001**
- MacPherson, R. See Gelfand, I. M.; et al., **88f:14045**
- Mahomed, F. M. See Sarlet, W.; et al., **88b:58123**
- Margolin, A. E. (with Strazhev, V. I.) Discrete symmetry of the quantum theory of the $SL(2, C)$ Yang-Mills gauge field. (Russian. English summary) **88j:81043**
- Masłanka, P. See Giler, S.; et al., **88f:81039**
- Matsumoto, Yasuhiko (with Nagae, Suet; Tokunaga, Katsufumi) Recursive method for invariant integration on $SU(N)$. **88g:17008**
- Mead, Lawrence R. See Bender, Carl M.; et al., **88m:33027**
- Meljanac, S. Absolute minima of Higgs potentials with high rank representations. (See **88g:81005**)
- Milne, S. C. A $U(n)$ generalization of Ramanujan's $1/\Psi_1$ summation. **88b:33027**
- Moshinsky, M. See Castaños, Octavio, **88g:22012**
- Mukunda, N. See Atré, M. V., **88a:81242**
- Muzyrsky, P. The Lie algebra of the post-Galilean relativity group. **88m:22045**
- Nagae, Suet See Matsumoto, Yasuhiko; et al., **88g:17008**
- Nasser, Ibrahim (with Hahn, Yukap) Nested form for Clebsch-Gordan coefficients and rotation matrices. **88b:81055**
- Ne'eman, Yuval See Bohm, Arno, (88i:81006)
- Neretin, Yu. A. Almost invariant structures and constructions of unitary representations of the group of diffeomorphisms of the circle. (Russian) **88j:22016**
- Nuyts, Jean See Brihaye, Yves, **88i:81090**
- Ogievetskii, E. I. (with Reshetikhin, N. Yu.; Wiegmann, P. B.) The principal chiral field in two dimensions on classical Lie algebras. The Bethe-ansatz solution and factorized theory of scattering. **88b:81164**
- Okubo, Susumu Dimensional regularization and nonassociative Dirac-Clifford algebra. **88c:17024**
- Ørsted, B. See Segal, I. E.; et al., **88c:81038**
- Paldus, J. (with Gao, Mei Juan; Chen, Jin Quan) Clifford algebra unitary-group approach to many-electron system partitioning. **88f:81144**
- Paneitz, S. M. See Segal, I. E.; et al., **88c:81038**
- Pinsky, Stephen S. See Bender, Carl M.; et al., **88m:33027**
- Quesne, C. Complementarity relation between the $U(p, q)$ and $U(n)$ Lie groups and some applications to atomic physics. **88c:22017**
- Raichev, P. P. See Georgieva, A. I.; et al., **88f:81143**
- Ramond, P. Group theory for string states. **88a:81209**
- Reiss, David B. See Holman, Richard, **88d:81078**
- Rembieliński, J. See Giler, S.; et al., **88f:81039**
- Reshetikhin, N. Yu. See Ogievetskii, E. I.; et al., **88b:81164**
- Ricci, Fulvio A contraction of $SU(2)$ to the Heisenberg group. **88a:22016**
- Rivas, M. (with Valle, M. A.; Aguirregabiria, J. M.) Composition law and contractions of the Poincaré group. (Basque summary) **88b:81056**
- Rohlf, Jürgen (with Speh, Birgit) On limit multiplicities of representations with cohomology in the cuspidal spectrum. **88k:22010**
- Rosenbaum, M. See Loehr, C. P., **88i:53117**
- Roussev, R. P. See Georgieva, A. I.; et al., **88f:81143**
- Rowe, D. J. See Hecht, K. T.; et al., **88d:81027** and **88h:81051**
- (Sánchez Mondragón, J.) See Lie methods in optics, **88c:78001**
- Santhanam, T. S. See Srinivasa Rao, K.; et al., **88f:81042**
- Sarlet, W. (with Mahomed, F. M.; Leach, P. G. L.) Symmetries of nonlinear differential equations and linearisation. **88b:58123**
- Savelev, M. V. See Leznov, A. N., **88j:58141**
- Schellekens, A. N. (with Warner, N. P.) Anomalies, characters and strings. **88f:81107**
- Schempp, Walter Nonlinear laser optics. I. Duality of semisimple rings and phase matching. **88m:78012**
- Segal, I. E. Hilbert-Schmidt cohomology of Weyl systems. **88h:47073**
- Induced bundles and nonlinear wave equations. **88f:58143**
- (with Ørsted, B.; Paneitz, S. M.; Vogan, D. A., Jr.) Explanation of parity nonconservation. **88c:81038**
- Serganova, V. V. See Gelfand, I. M.; et al., **88f:14045**
- Shapiro, R. L. (with Vilenkin, N. Ya.) Lorentz group and some integral representations for Bessel functions. (See **88i:81005**)
- Shrivastava, P. N. (with Kaur, Bhupinder) Lie operators and generalised Bessel polynomials. **88c:33005**
- Speh, Birgit See Rohlf, Jürgen, **88k:22010**
- Srinivasa Rao, K. (with Santhanam, T. S.; Gustafson, R. A.) Racah polynomials and a three-term recurrence relation for the Racah coefficients. **88f:81042**
- Sternheimer, D. Approche invariante de l'analyse non linéaire et de la quantification. [Invariant approach to nonlinear analysis and to quantization] **88c:22021**
- Stoichev, O. Ts. See Dobrev, V. K., **88c:22015a** and **88c:22015b**
- Štiklitis, V. (with Tolar, J.) Topology of the configuration manifold and quantum mechanics. (Czech. English and Russian summaries) **88h:81024**
- Strazhev, V. I. See Margolin, A. E., **88j:81043**
- Sun, Zeng Zhuo See Li, Guang Hua, **88c:81037**
- Štiklitis, V. (with Kalinauskas, R. K.) On the construction of the matrices of operators of the $Sp(2, R)$ -model of the nucleus in the unitary scheme basis. (Russian. English and Lithuanian summaries) **88g:81149**
- Szczyrba, Igor See Cieciura, Grzegorz, **88m:81146**
- Terada, Itaru See Koike, Kazuhiko, **88i:22035**
- Thorn, Charles B. See Curtright, T. L., **88a:81203**; **88a:81206** and **88c:81104**
- Todorov, I. T. Local field representations of the conformal group and their applications. **88b:81057**
- Tokunaga, Katsufumi See Matsumoto, Yasuhiko; et al., **88g:17008**
- Tolar, J. See Štiklitis, V., **88h:81024**
- Tong, Dao Rong On the duality relation between unitary groups and permutation groups. (Chinese) **88b:81058**
- Vafa, C. See Hamidi, Shahram, **88c:81085**
- Valle, M. A. See Rivas, M.; et al., **88b:81056**
- Vanden Bergh, G. See Vanthournout, J.; et al., **88m:81154**
- Van der Jeugt, Joris See Vanthournout, J.; et al., **88m:81154**
- Van Isacker, P. Generalized coupling coefficients for $O(6) \supset O(5)$ and $O(5) \supset O(3)$ in Bose-Fermi symmetries for odd-odd nuclei. **88i:81186**
- Vanthournout, J. (with Van der Jeugt, Joris; De Meyer, H.; Vanden Bergh, G.) Totally symmetric irreducible representations of the group $SO(6)$ in the principal $SO(3)$ subgroup basis. **88m:81154**
- Vershik, A. M. See Gelfand, I. M.; et al., **88a:22032**
- Vilenkin, N. Ya. See Shapiro, R. L., (88i:81005)
- Vogan, D. A., Jr. See Segal, I. E.; et al., **88c:81038**
- Wallach, Nolan R. See Goodman, Roe, **88d:58035**
- Warner, N. P. See Schellekens, A. N., **88f:81107**
- Wen, Zhen Yi Calculation of $S_{N_1+N_2} \supset S_{N_1} \otimes S_{N_2}$ and $U(n_1+n_2) \supset U(n_1) \otimes U(n_2)$ transformation coefficients for electron systems. (Chinese. English summary) **88d:81028**
- Wess, J. Anomalies, Schwinger terms and Chern forms. (See **88g:81005**)
- Wiegmann, P. B. See Ogievetskii, E. I.; et al., **88b:81164**
- Wilson, Raj See Barut, A. O.; et al., **88c:58108**
- Wolf, Kurt Bernardo See García-Bullé, Mauricio; et al., **88c:22010** and Lie methods in optics, **88c:78001**
- (Zhong, Zai Zhe) See Demys, K., **88a:83062**

Unauthored items

Leon ★ Lie methods in optics. **88c:78001**

Lie methods in optics ★ Lie methods in optics. **88c:78001**

Workshop:

Lie methods in optics ★ Lie methods in optics. 88c:78001

22E99 None of the above, but in this section

Items secondarily classified 22E99

- Bergman, George M. The amalgamation basis of the category of compact groups. 88g:22005
- Kuchment, P. A. On the spectral synthesis in the spaces of solutions of invariant differential equations [Application of topology in modern analysis (Russian), 87-10, Voronezh. Gos. Univ., Voronezh, 1985; MR 87e:58216]. (See 88b:58003)
- Mikheev, P. O. See Sabinin, L. V., 88d:22006
- del Olmo, M. A. (with Rodríguez, Miguel A.; Winternitz, P.) Superposition formulas for the rectangular matrix Riccati equations. 88d:58099
- Orioff, Jeremy Orbital integrals on symmetric spaces. 88k:43013
- Rodríguez, Miguel A. See del Olmo, M. A.; et al., 88d:58099
- Sabinin, L. V. (with Mikheev, P. O.) Local analytic loops with a right alternativity identity. (Russian) 88d:22006
- Solov'ev, M. A. On topological properties of orbit space in gauge field theories. 88j:58006
- Winternitz, P. See del Olmo, M. A.; et al., 88d:58099
- Zelikin, M. I. Synthesis of optimal trajectories on spaces of representations of Lie groups. 88g:58048

26-XX Real functions [See also 54C30.]

26-01 Elementary exposition; textbooks

- Belkner, H. (with Brehmer, S.) ★ Riemannsche und Lebesguesche Integrale. (German) [Riemann and Lebesgue integrals] 88d:26001
- Birkholz, Andrzej ★ Analiza matematyczna. (Polish) [Mathematical analysis] 88d:26002
- (Boll, Ludwig) See Fikhtengol'ts, G. M., 88b:26001
- Brehmer, S. See Belkner, H., 88d:26001
- Fikhtengol'ts, G. M. ★ Differential- und Integralrechnung. III. (German) [Differential and integral calculus. III] 88b:26001
- González-Velasco, Enrique A. The Lebesgue integral as a Riemann integral. 88i:26001
- (Gröger, Konrad) See Fikhtengol'ts, G. M., 88b:26001
- Hellwig, Günter ★ Höhere Mathematik. I. (German) [Higher mathematics. I] 88g:26001
- Kleiner, Witold ★ Analiza matematyczna. Tom I. (Polish) [Mathematical analysis. Vol. I] 88j:26001
- Lay, Steven R. ★ Analysis. 88i:26002
- Stancil, Donald L. (with Stancil, Mildred L.) ★ Real analysis with point-set topology. 88j:26002
- Stancil, Mildred L. See Stancil, Donald L., 88j:26002

Items secondarily classified 26-01

- Baxandall, Peter (with Liebeck, Hans) ★ Vector calculus. 88m:26020
- (Boll, Ludwig) See Dieudonné, J., 88b:00003
- Borisenko, A. I. (with Tarapov, I. E.) ★ Векторный анализ и начала тензорного исчисления. (Russian) [Vector analysis and the elements of the tensor calculus] 88c:53021
- Budak, Boris M. (with Fomin, S. V.) ★ Integrali multipli e serie. (Italian) [Multiple integrals and series] 88f:00001
- Chekhlov, V. I. See Kudryavtsev, L. D.; et al., 88f:00003
- Dieudonné, J. ★ Grundzüge der modernen Analysis. Band 1. (German) [Foundations of modern analysis. Vol. 1] 88b:00003
- Fomin, S. V. See Budak, Boris M., 88f:00001
- Giles, J. R. ★ Introduction to the analysis of metric spaces. 88j:46001
- (Kanovei, V. G.) See Uspenskii, V. A., 88m:26028
- Knoche, Norbert (with Wippermann, Heinrich) ★ Vorlesungen zur Methodik und Didaktik der Analysis. (German) [Lectures on the methods and didactics of analysis] 88h:00011
- (Koretskii, Vitalii) See Budak, Boris M., 88f:00001
- Kudryavtsev, L. D. (with Kutasov, A. D.; Chekhlov, V. I.; Shabunin, M. I.) ★ Сборник задач по математическому анализу. (Russian) [A collection of problems in mathematical analysis] 88f:00003
- Kutasov, A. D. See Kudryavtsev, L. D.; et al., 88f:00003
- Liebeck, Hans See Baxandall, Peter, 88m:26020
- (Matthes, Klaus) See Dieudonné, J., 88b:00003
- Mendelson, Elliott ★ Number systems and the foundations of analysis. 88b:04001
- Noll, Walter ★ Finite-dimensional spaces. Vol. I. 88i:00006
- Rudin, Walter ★ Real and complex analysis. 88k:00002
- Shabunin, M. I. See Kudryavtsev, L. D.; et al., 88f:00003
- Tarapov, I. E. See Borisenko, A. I., 88c:53021
- Tikhomirov, V. M. ★ Рассказы о максимумах и минимумах. (Russian) [Tales of maxima and minima] 88c:49001
- Uspenskii, V. A. ★ Что такое нестандартный анализ? (Russian) [What is nonstandard analysis?] 88m:26028
- Wippermann, Heinrich See Knoche, Norbert, 88h:00011

26-02 Advanced exposition (research surveys, monographs, etc.)

Nishimoto, Katsuyuki ★ Fractional calculus. 88e:26001

26-03 Historical (must also be assigned at least one classification number from Section 01)

(Archimedes) See Klavánek, Igor, 88j:26003

Klavánek, Igor Archimedes was right. II. 88j:26003

Items secondarily classified 26-03

- (Atkin, C. J.) See Zygmund, Antoni, 88g:01063
- Baron, Margaret E. ★ The origins of the infinitesimal calculus. 88d:01001
- (Bernoulli, Johann I) See Hofmann, Joseph Ehrenfried, 88h:01020
- Bottazzini, Umberto ★ The higher calculus: a history of real and complex analysis from Euler to Weierstrass. 88a:01016
- (Demidov, S. S.) See Luzin, N. N., 88j:01018
- Dorofeeva, A. V. On the formation of the concept of the differential for functions of several variables. (Russian. English summary) 88i:01044
- Fraser, Craig G. Joseph Louis Lagrange's algebraic vision of the calculus. (French and German summaries) 88g:01018
- Gindikin, S. G. Three-hundredth anniversary of infinitesimal calculus. (Bulgarian) 88g:01016
- Giorello, Giulio Physics as a tool for solving disputes in mathematics. A case-study. 88m:01031
- Hofmann, Joseph Ehrenfried Johann Bernoulli's Kreisrekifikation durch Evolventenbildung. [Johann Bernoulli's method for squaring the circle through the formation of evolvents] 88h:01020
- Komatsu, Yūsaku The change in the concept of functions. (Japanese. English summary) 88d:01004
- (Lagrange, Joseph Louis) See Fraser, Craig G., 88g:01018
- Langwitz, Detlef (with Rodewald, Bernd) Auf Eulers Spuren zur Gammafunktion. [Following in Euler's tracks to the gamma function] 88h:01021
- Loeffel, Hans Elementargeometrische Integrationen von Pascal. [Elementary-geometrical integrations of Pascal] 88c:01013
- Luzin, N. N. [On restrictors]. (Russian) 88j:01018
- Rodewald, Bernd See Langwitz, Detlef, 88h:01021
- (Saks, Stanislaw) See Zygmund, Antoni, 88g:01063
- (Van Egmond, Warren) See Bottazzini, Umberto, 88a:01016
- Zygmund, Antoni Stanislaw Saks, 1897-1942. 88g:01063

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Biography:
Saks, Stanislaw See Zygmund, Antoni, 88g:01063

26-04 Explicit machine computation and programs (not the theory of computation or programming)

- Kalaba, Robert (with Plum, Thomas; Tsetsfatsion, Leigh) Automation of nested matrix and derivative operations. 88g:26002
- Plum, Thomas See Kalaba, Robert; et al., 88g:26002
- Tsetsfatsion, Leigh See Kalaba, Robert; et al., 88g:26002
- Wexler, Anthony S. Automatic evaluation of derivatives. 88k:26001

Items secondarily classified 26-04

Kölbig, K. S. On the integral $\int_0^1 x^{n-1} (1-x)^{-1} \ln^m x \, dx$. 88h:65042

26-06 Proceedings, conferences, etc.

Unauthored items

Esztergom ★ Esztergom summer symposium on real analysis. 88j:26004

"Gyulechitsa", Bulgaria ★ Proceedings of the joint Bulgarian-Hungarian workshop on mathematical cybernetics and data processing. 88i:26003

Proceedings:

Workshop on mathematical cybernetics and data processing ★ Proceedings of the joint Bulgarian-Hungarian workshop on mathematical cybernetics and data processing. 88i:26003

Symposium:

Real analysis ★ Esztergom summer symposium on real analysis. 88j:26004

Workshop:

Mathematical cybernetics and data processing ★ Proceedings of the joint Bulgarian-Hungarian workshop on mathematical cybernetics and data processing. 88i:26003

Items secondarily classified 26-06

(Brdnyi, Yu. A.) See Studies in the theory of functions of several real variables. 88f:00008

(Ul'yanov, P. L.) See Theory of functions and its applications. 88h:00017

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Conference:

Theory of functions and its applications ★ Теория функций и ее приложения. (Russian) [Theory of functions and its applications] 88h:00017

Moscow ★ Теория функций и ее приложения. (Russian) [Theory of functions and its applications] 88b:00017

Studies in the theory of functions of several real variables ★ Исследования по теории функций многих вещественных переменных. (Russian) [Studies in the theory of functions of several real variables] 88f:00008

Theory of functions and its applications ★ Теория функций и ее приложения. (Russian) [Theory of functions and its applications] 88h:00017

26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

- Ahlan, Alexander Products of Cantor's discontinuum. 88i:26002
 Antos, Josef On the A -continuity of real function. II. (Russian summary) 88a:26001
 Beesack, Paul R. Iterated and double limits. 88g:26003
 Herden, Gerhard Funktionen, deren Funktionsgrenzwert überall existiert. [Functions whose function limit value exists everywhere] 88c:26001
 Kuang, Ji Chang Some generalizations of Stolz's theorem. (Chinese. English summary) 88m:26001
 Mareščin, Albert On the structure of certain functional spaces with Baire metric. (Russian and Slovak summaries) 88e:26002
 Natkaniec, T. Some multiplicative properties of sets of real numbers. (Polish summary) 88c:26002
 Neubrunnová, Anna On a unifying principle in real analysis. (Russian and Slovak summaries) (Not in MR)
 Takeuchi, Yu The axiom of completeness. (Spanish) (Not in MR)

26A06 One-variable calculus

- Todorov, Pavel G. The n th derivative of $\lg x$. 88a:26002
 The n th derivative of the function $f(x^p)$. 88g:26004
 Vitoria, L. Zur Abschätzung des Restes Taylorscher Näherungspolynome. [On the estimation of the remainder of Taylor approximation polynomials] 88k:26002

Items secondarily classified 26A06

- Koecher, Max ★ *Klassische elementare Analysis*. (German) [Classical elementary analysis] 88j:00001
 Smith, K. T. ★ Power series from a computational point of view. 88i:30001

26A09 Elementary functions

- Cross, G. E. (with Kannappan, P.) A functional identity characterizing polynomials. 88k:26003
 Kannappan, P. See Cross, G. E., 88k:26003

Items secondarily classified 26A09

- Balca, Malvina Trigonometric identities. 88c:11046

26A12 Rate of growth of functions, orders of infinity, slowly increasing functions [See also 26A48.]

- Bingham, N. H. (with Goldie, Charles M.; Teugels, J. L.) ★ Regular variation. 88i:26004
 Boshernitzan, Michael Hardy fields and existence of transexponential functions. 88b:26003
 Second order differential equations over Hardy fields. 88f:26001
 Goldie, Charles M. (with Smith, Richard L.) Slow variation with remainder: theory and applications. 88f:26002
 See also Bingham, N. H.; et al., 88i:26004
 Smith, Richard L. See Goldie, Charles M., 88f:26002
 Teugels, J. L. See Bingham, N. H.; et al., 88i:26004
 Tsogelik, G. G. Newton majorants and Newton diagrams of functions of a real variable defined on an interval. (Russian) 88i:26005
 Zhou, Xiang Yu On the asymptotic behavior of a class of functions. (Chinese. English summary) (Not in MR)

Items secondarily classified 26A12

- Duma, Ioan A binary channel characterization using regularly varying functions. 88h:94025
 de Haan, L. (with Resnick, Sidney) On regular variation of probability densities. 88m:26021
 Resnick, Sidney See de Haan, L., 88m:26021
 Rosenlicht, Maxwell Growth properties of functions in Hardy fields. 88b:12010
 Yakymiv, A. L. Asymptotics of the probability of nonextinction of critical Bellman-Harris branching processes. (Russian) 88d:60221

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) (For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.)

- Aversa, Vincenzo (with Wilczyński, W.) Homeomorphisms preserving \mathcal{F} -density points. (Italian summary) 88g:26005
 Björnsson, Ottó J. Note on real functions that are continuous from one side. (Danish. English summary) 88i:26006
 Brown, Jack B. (with Priky, Karel) Variations on Lusin's theorem. 88e:26003
 Dobos, József On quasi-uniform convergence and symmetrically continuous functions. (Russian and Slovak summaries) 88d:26003
 Ene, Vasile On some classes of continuous functions. 88a:26003
 Evans, Michael Jon (with Humke, Paul D.) L -points of typical functions in the Zahorski classes. 88d:26004
 Ganguly, D. K. A note on a class of steadily increasing continuous functions which are not absolutely continuous. 88b:26004
 Ho, Chung Wu On a problem of Funar. 88c:26003
 Humke, Paul D. See Evans, Michael Jon, 88d:26004

- Katsuura, Hidefumi k -to-1 functions on $(0, 1)$. 88d:26005
 Maly, Jan Perfect level sets in many directions. 88a:26004
 Mustafa, Ibrahim A general approach leading to typical results. 88d:26006
 Pawlak, Ryszard Jerzy On rings of Darboux functions. 88m:26002
 Poreda, W. See Wagner-Bojakowska, E., 88a:26005
 Priky, Karel See Brown, Jack B., 88e:26003
 Taberski, Roman On the power variations and pseudovariations of positive integer orders. 88m:26003
 Tran, Tan C. Symmetric functions whose set of points of discontinuity is uncountable. 88m:26004
 Wagner-Bojakowska, E. (with Poreda, W.) The topology of I -approximately continuous functions. 88a:26005
 Wilczyński, W. See Aversa, Vincenzo, 88g:26005
 Zajček, Laděk Porosity, \mathcal{F} -density topology and abstract density topologies. 88g:26006

Items secondarily classified 26A15

- Blokh, A. M. Some properties of mappings of constant slope of the interval. (Russian) 88j:58052
 Buczelich, Z. For every continuous f there is an absolutely continuous g such that $[f = g]$ is not bilaterally strongly porous. 88i:26025
 Chanturiya, Z. A. On the continuity of functions of the class $V_{\mathcal{F}}$. (Russian) 88e:42010
 Ditzian, Z. Moduli of smoothness using discrete data. 88c:41036
 Foran, James Bounded variation and porosity. 88i:26021
 Herden, Gerhard Funktionen, deren Funktionsgrenzwert überall existiert. [Functions whose function limit value exists everywhere] 88c:26001
 Humke, Paul D. (with Šalát, Tibor) A note on points of absolute continuity of symmetrically differentiable functions. (Russian and Slovak summaries) 88b:26006
 Ivanov, V. I. On a modulus of continuity in L_p . (Russian) 88h:41021
 Maljutina, A. N. See Nikulina, N. G., 88b:46074
 Mareščin, Albert On the structure of certain functional spaces with Baire metric. (Russian and Slovak summaries) 88e:26002
 Mirica, Stefan The monotony of semicontinuous real functions. 88k:26011
 Musielak, Helena On the r -modulus of smoothness in generalized Orlicz spaces. 88b:46051
 Nikulina, N. G. (with Maljutina, A. N.) The continuity of functions of a certain class. (Russian) 88h:46074
 Norak, Erich Two remarks on the decreasing rearrangement of a function. 88a:26009
 Šalát, Tibor See Humke, Paul D., 88b:26006

26A16 Lipschitz (Hölder) classes

- Beer, Gerald A geometric algorithm for approximating semicontinuous function. 88b:26005
 Výborný, Rudolf Die Perronsche Methode für Lipschitz-stetige Funktionen. [The Perron method for Lipschitz-continuous functions] 88m:26005

Items secondarily classified 26A16

- Kolyada, V. I. Estimates for mean oscillations over multidimensional intervals in terms of integral smoothness. (Russian) 88k:46033

26A18 Iteration [See also 39B10, 47H10, 54H25, 58F08.]

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- Ouyang, He (with Wu, Yi) Differential and integral calculus and differential equations with fuzzy set-valued functions. (Chinese) 88i:34013
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28-XX Measure and integration [For analysis on manifolds, see 58-XX.]

28-01 Elementary exposition; textbooks

- Gupta, Ved Parkash See Jain, Pawan Kumar, 88b:28001a and 88b:28001b
- Jain, Pawan Kumar (with Gupta, Ved Parkash) ★ Lebesgue measure and integration. 88b:28001a
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- Brehmer, S. See Belkner, H., 88d:26001
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- (Helle, Renate) See Smirnov, Vladimir Ivanovich, 88m:00008
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- (Linton, F. E. J.) See Carathéodory, C., 88m:28001
- (Rosenthal, Arthur) See Carathéodory, C., 88m:28001
- (Steinwald, R.) See Carathéodory, C., 88m:28001

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- Milbrodt, Hartmut (with Oppel, Ulrich G.) Projective systems and projective limits of vector measures. 88a:28012
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28-03 Historical (must also be assigned at least one classification number from Section 01)

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- (Bernoulli, Johann I.) See Hofmann, Joseph Ehrenfried, 88h:01020
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- (Saks, Stanislaw) See Zygmund, Antoni, 88g:01063 and Wojtaszczyk, P., 88g:01064
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28Axx Classical measure theory

28A05 Classes of sets (Borel fields, σ -rings, etc.), measurable sets, Suslin sets, analytic sets [See also 04A15, 26A21, 54H05.]

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28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24.]

- Buttazzo, Giuseppe (with Dal Maso, Gianni; Mosco, Umberto) A derivation theorem for capacities with respect to a Radon measure. 88d:28007
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28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

- Anisaczek, Bohdan (with Frankiewicz, Ryszard) A theorem on completely additive family of real valued functions. (Russian summary) 88b:28005
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- Lipski, J. S. A remark about Łuczak's theorem on functions whose sections are derivatives. 88k:28006
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- More on Fatou's lemma in several dimensions. 88k:28013
- Brown, Jack B. (with Prikrý, Karel) Variations on Lusin's theorem. 88e:26006.
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- Hess, Christian Lemme de Fatou et théorème de la convergence dominée pour des ensembles aléatoires non bornés et des intégrales. [The Fatou lemma and a dominated convergence theorem for unbounded random sets and integrals] 88k:28018
- Ito, Shunji See Mizutani, Masahiro, 88d:11071
- Liao, Ke Cheng A refinement of the controlled convergence theorem for Henstock integrals. 88m:26016
- Mekler, A. A. Identification in some classes of principal symmetric and interpolation ideals. (Russian) 88m:46038
- Miller, Harry I. On a result of S. Kurepa. 88d:28003
- Mizutani, Masahiro (with Ito, Shunji) A new characterization of dragon and dynamical system. 88d:11071
- Olech, Czesław On n -dimensional extensions of Fatou's lemma. (French summary) 88g:28009
- Prikrý, Karel See Brown, Jack B., 88e:26003
- Stolinski, Stanisław Approximation with respect to a measure in modular space. I. (Russian summary) 88k:46030
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28A25 Integration with respect to measures and other set functions

- Bell, Wayne C. Universally integrable set functions. 88g:28005
- Belov, E. G. (with Chentsov, A. G.) Some properties of two-valued measures and conditions for universal integrability. (Russian) 88k:28009
- Chentsov, A. G. On the question of universal integrability of bounded functions. 88a:28010
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28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx.]

- Chobanov, Georgi S. See Rachev, Svetlozar T., 88f:28006
- Fuchs, Aimé (with Letta, Giorgio) Une extension d'un théorème de Koopman et von Neumann. (Italian summary) [An extension of a theorem of Koopman and von Neumann] 88g:28006
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- Sukhov, Yu. M.** See Bunimovich, L. A.; et al., 88c:58038
- Vershik, A. M.** See Bunimovich, L. A.; et al., 88c:58038
- Vo-Khac, Kh.** See Bertrandias, J.-P.; et al., 88g:11049
- Volný, Dalibor** Determinism and martingale decompositions of strictly stationary random processes. 88m:60112
A nonergodic version of Gordin's CLT for integrable stationary processes. 88j:60056

- Watkins, Joseph C. A companion to the Oseledec multiplicative ergodic theorem. 88i:60017
- Wen, Ming A characterization of a two-weight norm inequality for ergodic maximal operators. 88c:47016
- Withers, Wm. Douglas Analysis of invariant measures in dynamical systems by Hausdorff measure. 88k:58077
- Yakobson, M. V. See Bunimovich, L. A.; et al., 88c:58038

Unauthored items

Itoji Nauki i Tekhniki See Bunimovich, L. A.; et al., 88c:58038

28D10 One-parameter continuous families of measure-preserving transformations

Génot, R. K. Measures that are translation invariant in one coordinate. 88i:28036

Items secondarily classified 28D10

- Adachi, Toshiaki Markov families for Anosov flows with an involutive action. 88b:58108
- Batty, C. J. K. Derivations on the line and flows along orbits. 88f:46125
- Cambanis, Stamatis (with Hardin, Clyde D., Jr.; Weron, Aleksander) Ergodic properties of stationary stable processes. 88m:60037
- Dani, S. G. Bounded orbits of flows on homogeneous spaces. 88i:22011
- Flows with periodic factors on homogeneous spaces. 88b:22006
- Fisher, Albert Convex-invariant means and a pathwise central limit theorem. 88g:60058
- Hardin, Clyde D., Jr. See Cambanis, Stamatis; et al., 88m:60037
- Ishikawa, Shiro Hilbert transforms on one-parameter groups of operators. I, II. 88f:47037
- Johnson, Stewart D. Singular measures without restrictive intervals. 88g:58093
- Kachurovskii, A. G. Existence of an invariant measure in topological dynamical systems. (Russian) 88b:58079
- Protter, Philip Semimartingales and measure preserving flows. (French summary) 88m:60138
- Weron, Aleksander See Cambanis, Stamatis; et al., 88m:60037

28D15 General groups of measure-preserving transformations

- Aaronson, Jon (with Nadkarni, M. G.) L_∞ eigenvalues and L_2 spectra of nonsingular transformations. 88j:28012
- Berend, Daniel (with Bergelson, Vitaly) Characterization of joint ergodicity for noncommuting transformations. 88h:28018
- Bergelson, Vitaly See Berend, Daniel, 88h:28018
- Fabec, R. C. Induced group actions, representations and fibered skew product extensions. 88c:28009
- Fedorov, A. L. See Veksler, A. S., 88d:00001
- Graziewicz, Ryszard Generating the group of transformations of $[0, 1]$. 88m:28014
- Mathew, J. (with Nadkarni, M. G.) Some spectral questions on ergodic actions of $\oplus \mathbb{Z}_2$. 88j:28013
- Nadkarni, M. G. See Aaronson, Jon, 88j:28012 and Mathew, J., 88j:28013
- Rosenblatt, Joseph Ergodic group actions. 88d:28024
- Rosenthal, Alain Weak Pinsker property and Markov processes. (French summary) 88h:28019
- Sineĭshchikov, S. D. A criterion for the ergodicity of fiber bundles, and the construction of cocycles with dense ranges in compact groups. (Russian) 88i:28037
- Veksler, A. S. (with Fedorov, A. L.) Statistical ergodic theorem for flows in symmetric spaces. (Russian) (See 88d:00001)
- Witte, David Zero-entropy affine maps on homogeneous spaces. 88i:28038

Items secondarily classified 28D15

- Bezuglyi, S. I. (with Golodets, V. Ya.) Outer conjugacy of actions of countable amenable groups on a space with measure. (Russian) 88d:46115
- Chou, Ching Ergodic group actions with nonunique invariant means. 88f:43002
- Ellis, Robert Mortimer Topological dynamics and ergodic theory. 88g:54067
- Feldman, Jacob (with Ornstein, D.) Semirigidity of horocycle flows over compact surfaces of variable negative curvature. 88k:58128
- Flaminio, Livio An extension of Ratner's rigidity theorem to n -dimensional hyperbolic space. 88m:58155
- Golodets, V. Ya. (with Sineĭshchikov, S. D.) The structure of automorphisms of measurable groupoids and the comparison of transitive cocycles. (Russian. English summary) 88g:22006
- See also Bezuglyi, S. I., 88d:46115
- Holson, Henry ★ The spectral theorem. 88k:47027
- Lasota, Andrzej Stability, periodicity and chaos from the statistical point of view. (See 88k:92004)
- Ornstein, D. See Feldman, Jacob, 88k:58128
- Sineĭshchikov, S. D. See Golodets, V. Ya., 88g:22006
- Starikov, A. N. Spaces of finite volume. (Russian) 88f:22021
- On a criterion for the ergodicity of G -induced flows. (Russian) 88i:22012

28D20 Entropy and other invariants

- Adler, R. L. The torus and the disk. (Not in MR)
- Boyle, Mike Constraints on the degree of a sofic homomorphism and the induced multiplication of measures on unstable sets. 88d:28025
- Fieldsteel, Adam (with Friedman, N. A.) Restricted orbit changes of ergodic \mathbb{Z}^d -actions to achieve mixing and completely positive entropy. 88d:28026
- Friedman, N. A. See Fieldsteel, Adam, 88d:28026
- Geffer, S. L. (with Golodets, V. Ya.) Ergodic action with the identity fundamental group. (Russian. English summary) 88d:28027

- Ghys, Étienne (with Langevin, Rémi; Walczak, Paweł) Entropie mesurée et partitions de l'unité. (English summary) [Metric entropy and partitions of unity] 88a:28024
- Golodets, V. Ya. See Geffer, S. L., 88d:28027
- Kaufman, Robert P. Entropy, dimension, and random sets. 88d:28028
- Kitchens, Bruce P. Expansive dynamics on zero-dimensional groups. 88i:28039
- Kolmogorov, A. N. A new metric invariant of transitive dynamical systems and automorphisms of Lebesgue spaces. (Russian) 88h:28020
- Kosko, Bart Fuzzy entropy and conditioning. 88f:28016
- Langevin, Rémi See Ghys, Étienne; et al., 88a:28024
- Lind, D. A. The spectra of topological Markov shifts. 88f:28017
- Mendoza D'Paola, L. Entropy, dimension and Lyapunov exponents for Lipschitz mappings. (Spanish. English summary) 88a:28025
- Nasu, Masakazu Topological conjugacy for sofic systems. 88f:28018
- Ornstein, D. (with Weiss, Benjamin) Entropy and isomorphism theorems for actions of amenable groups. 88j:28014
- Pardo, Leandro Rényi's α -order entropy in the context of nonstandard analysis. (Spanish. English summary) (Not in MR)
- Petersen, Karl Chains, entropy, coding. 88i:28040
- Schmidt, Klaus D. Hyperbolic structure preserving isomorphisms of Markov shifts. 88c:28013
- Hyperbolic structure preserving isomorphisms of Markov shifts. II. 88j:28015
- Shimomura, Takashi Topological entropy and periodic points of a factor of a subshift of finite type. 88c:28014
- Stoyanov, Luchezar N. Uniqueness of topological entropy for endomorphisms on compact groups. (Italian summary) 88m:28015
- Walczak, Paweł See Ghys, Étienne; et al., 88a:28024
- Weiss, Benjamin See Ornstein, D., 88j:28014
- Zargaryan, A. S. A variational principle for the topological pressure in the case of a Markov chain with a countable number of states. (Russian) 88f:28019

Items secondarily classified 28D20

- Andrey, Ladislav The relationship between entropy production and K -entropy. 88i:82036
- Chen, Yong Hong The ergodic property of dynamical systems on the torus. (Chinese) 88j:58067
- Csiszár, I. Information theory and ergodic theory. (Russian summary) 88c:94021
- Dupain, Yves (with Kamae, Teturo; Mendes-France, M.) Corrigenda to: "Can one measure the temperature of a curve?" [Arch. Rational Mech. Anal. 94 (1986), no. 2, 155-163; MR 87f:52009]. 88a:52004
- Fried, David Entropy and twisted cohomology. 88k:58074
- Haydn, Nicolai T. A. On Gibbs and equilibrium states. 88f:58090
- Herzel, Hans-Peter Beschreibung von deterministischem Chaos mit informationstheoretischen Methoden. [Description of deterministic chaos with information-theoretical methods] 88b:58086
- Johnson, Russell A. (with Palmer, Kenneth J.; Sell, George R.) Ergodic properties of linear dynamical systems. 88a:58112
- Kalpaizidou, Sofia On the entropy of expansions with odd partial quotients. 88k:11050
- Kamae, Teturo See Dupain, Yves; et al., 88a:52004
- Kapur, J. N. On a monotonicity property of various measures of entropy and directed divergence. 88b:94011
- Katok, Anatole (with Strelcyn, Jean-Marie; Ledrappier, François; Przytycki, Feliks) ★ Invariant manifolds, entropy and billiards; smooth maps with singularities. 88k:58075
- Krause, Rudolf On the entropy of λ -additive fuzzy measures. 88j:28016
- Ledrappier, François Quelques propriétés des exposants caractéristiques. [Some properties of characteristic exponents] 88b:58081
- See also Katok, Anatole; et al., 88k:58075
- Lind, D. A. Entropies of automorphisms of a topological Markov shift. 88c:54034
- Mendes-France, M. See Dupain, Yves; et al., 88a:52004
- Mislove, Michael Remark on the definition of topological entropy. 88g:58163
- Palmer, Kenneth J. See Johnson, Russell A.; et al., 88a:58112
- Przytycki, Feliks See Katok, Anatole; et al., 88k:58075
- Rybakko, B. Ya. Noise-free coding of combinatorial sources, Hausdorff dimension and Kolmogorov complexity. (Russian) 88b:94014
- Schlogl, F. The variance of information loss as a characteristic quantity of dynamical chaos. 88i:58098a
- Addendum: "The variance of information loss as a characteristic quantity of dynamical chaos". 88i:58098b
- Sell, George R. See Johnson, Russell A.; et al., 88a:58112
- Shimomura, Takashi Chain recurrence and P.O.T.P. 88i:54032
- Strelcyn, Jean-Marie See Katok, Anatole; et al., 88k:58075
- Thieullen, P. Fibres dynamiques asymptotiquement compacts. Exposants de Lyapounov. Entropie. Dimension. (English summary) [Asymptotically compact dynamic bundles. Lyapunov exponents. Entropy. Dimension] 88h:58064
- Tu, Pao Sheng Topological entropy and chaos of interval maps. 88d:58064
- Williams, Susan A sofic system with infinitely many minimal covers. 88f:54077
- Zhou, Zuo Ling A proof of small conjecture on topological entropy. 88a:58171

28D99 None of the above, but in this section

- Fedorov, A. L. See Veksler, A. S., 88g:28022
- Jones, V. F. R. (with Schmidt, Klaus D.) Asymptotically invariant sequences and approximate finiteness. 88h:28021
- Krzyżewski, K. On Ruelle's theorem for one-sided subshifts of finite type. 88f:28020
- Kubokawa, Yoshihiro A construction of finite and σ -finite invariant measures in measure spaces. 88k:28025
- Lemańczyk, M. Ergodic \mathbb{Z}_2 -extensions over rational pure point spectrum, category and homomorphisms. 88h:28022
- Rudolph, D. J. \mathbb{Z}^d and \mathbb{R}^d cocycle extensions and complementary algebras. 88b:28032
- Schmidt, Klaus D. See Jones, V. F. R., 88h:28021
- Tuncel, Selim Markov measures determine the zeta function. 88d:28029

Vekslar, A. S. (with Fedorov, A. L.) Classification of closed equivalence subrelations of measurable equivalence relations. (Russian) 88g:28022

Items secondarily classified 28D99

- Akcoglu, M. A. (with Sucheston, L.) An alternating procedure for operators on L_p spaces. 88c:47013
- Béal, Marie-Pierre (with Perrin, Dominique) Une caractérisation des ensembles sofiqes. (English summary) [A characterization of sofic sets] 88a:68060
- Bergelson, Vitaly Ergodic Ramsey theory. 88b:05003
- Dueck, Gunter (with Wolters, L.) The Slepian-Wolf theorem for individual sequences. 88b:94007
- Farkas, Daniel R. Recurrent behavior in rings. 88i:16015
- Gray, Robert M. ★ Probability, random processes, and ergodic properties. 88m:60002
- Hamachi, T. (with Osikawa, M.) Computation of the associated flows of ITPFI₂ factors of type III₀. 88k:46079
- Jiang, Yun Ping (with Xu, Lian Chao) Density of noncontinuity points with infinite entropy. 88f:58092
- Kawamura, S. Finite-dimensional representations of C^* -crossed products. 88d:46121
- Kolyada, S. F. The measure of quasi-attractors of one-dimensional smooth mappings. (Russian) 88h:58066
- Komornik, Jozef (with Lasota, Andrzej) Asymptotic decomposition of Markov operators. (Russian summary) 88m:47014
- Krengel, Ulrich (with Lin, Michael) Order preserving nonexpansive operators in L_1 . 88k:47085
- An example concerning the nonlinear pointwise ergodic theorem. 88k:47086
- Lasota, Andrzej See Komornik, Jozef, 88m:47014
- Lin, Michael See Krengel, Ulrich, 88k:47085
- Osikawa, M. See Hamachi, T., 88k:46079
- Perrin, Dominique See Béal, Marie-Pierre, 88a:68060
- Pollcott, Mark A complex Ruelle-Perron-Frobenius theorem and two counterexamples. 88i:58097
- Sucheston, L. See Akcoglu, M. A., 88c:47013
- Šujan, Š. Ergodic theory, entropy, and coding problems of information theory. 88f:94003
- Wolters, L. See Dueck, Gunter, 88b:94007
- Xu, Lian Chao See Jiang, Yun Ping, 88f:58092
- Zou, Ying Topological transitive dynamical systems with quasisdiscrete spectrum. (Chinese. English summary) 88a:54094

28Exx Miscellaneous topics

28E05 Nonstandard measure theory [See also 03H05.]

Kalina, Martin On the construction of an invariant volume. (Russian and Slovak summaries) 88c:28015

Items secondarily classified 28E05

- Bertossi, L. E. Standard capacities with nonstandard pavings. 88c:26023
- Brunet, Bernard Integration nonstandard. [Nonstandard integration] 88k:26025
- Cutland, N. J. Infinitesimals in action. 88d:26045
- Kessler, Christoph Nonstandard conditions for the global Markov property for lattice fields. 88b:82010
- Li, Bang He On the moiré problem from distributional point of view. (Chinese summary) 88i:03107

28E10 Fuzzy measures [See also 03E72.]

- Basile, Achille Sequential compactness for sets of Sugeno fuzzy measures. 88d:28030
- Di Nola, A. (with Ventre, Aldo G. S.) On fuzzy integral inequalities and fuzzy expectation. 88i:28041
- Gil Álvarez, Pedro See Suárez García, Fermín, 88b:28035
- de Glas, Michel Fuzzy σ -fields and fuzzy measures. 88d:28031
- Greco, Gabriele H. Fuzzy integrals and fuzzy measures with their values in complete lattices. 88i:28042
- He, Chen On the problem of fuzzy integration. (Chinese. English summary) 88b:28033
- Kruse, Rudolf On the entropy of λ -additive fuzzy measures. 88j:28016
- Li, Feng Fuzzy measures and approximation measures among fuzzy subsets. (Chinese summary) 88c:28016
- Murofushi, T. See Sugeno, Michio, 88c:28017
- Piasecki, Krzysztof Fuzzy probability spaces defined by means of the fuzzy relation "less than". 88b:28034
- Fuzzy P -measure on the real line. 88i:28043
- Suárez García, Fermín (with Gil Álvarez, Pedro) Measures of fuzziness of fuzzy events. 88b:28035
- Sugeno, Michio (with Murofushi, T.) Pseudo-additive measures and integrals. 88c:28017
- Ventre, Aldo G. S. See Di Nola, A., 88i:28041
- Vrublevskaya, N. A. Measures in systems of fuzzy sets. (Russian. English summary) 88i:28044
- Weber, Siegfried Two integrals and some modified versions—critical remarks. 88b:28036
- Zhang, Wen Xiu Fuzzy number measures. (Chinese) (Not in MR)

Items secondarily classified 28E10

- Cattaneo, Gianpiero (with Nisticò, Giuseppe) Algebraic properties of complex fuzzy events in classical and in quantum information systems. 88b:03095
- Chen, Shao Zhong (with Liu, Zuo Shu) Fuzzy orthogonal random measure. 88f:60096
- Liu, Zuo Shu See Chen, Shao Zhong, 88f:60096
- Nisticò, Giuseppe See Cattaneo, Gianpiero, 88b:03095

30-XX Functions of a complex variable {For analysis on manifolds, see 58-XX.}

Hossain, Moqbul Approximation of entire harmonic functions in \mathbb{R}^n . (Not in MR)

30-01 Elementary exposition; textbooks

- Aleshkov, Yu. Z. (with Smyslyayev, P. P.) ★ Теория функций комплексного переменного и ее приложения. (Russian) [Theory of functions of a complex variable and its applications] 88a:30001
- Fisher, Stephen D. ★ Complex variables. 88b:30001
- Grishchenko, A. E. (with Nagnibida, N. I.; Nastasiev, P. P.) ★ Теория функций комплексного переменного. (Russian) [The theory of functions of a complex variable] 88d:30001
- Hoffman, Michael J. See Marsden, J. E., 88m:30001
- Marsden, J. E. (with Hoffman, Michael J.) ★ Basic complex analysis. 88m:30001
- Nagnibida, N. I. See Grishchenko, A. E.; et al., 88d:30001
- Nastasiev, P. P. See Grishchenko, A. E.; et al., 88d:30001
- Smith, K. T. ★ Power series from a computational point of view. 88i:30001
- Smyslyayev, P. P. See Aleshkov, Yu. Z., 88a:30001
- Zhou, Zheng Zhong The Cauchy integral theorem. (Chinese) 88c:30001

Items secondarily classified 30-01

- Benedek, A. I. (with Fernández Stacco, Edgardo; Panzone, R.) ★ Lecciones complementarias de análisis superior. (Spanish) [Complementary lectures in higher analysis] 88m:00001
- Birkholz, Andrzej ★ Analiza matematyczna. (Polish) [Mathematical analysis] 88d:26002
- Ergasov, M. A. Series and integral representations. (Russian) 88g:00001
- Fernández Stacco, Edgardo See Benedek, A. I.; et al., 88m:00001
- Gaier, Dieter See Landau, Edmund, 88d:01046
- Ibragimov, I. I. ★ Избранные вопросы теории аналитических функций. (Russian) [Selected problems in the theory of analytic functions] 88b:30046
- Landau, Edmund (with Gaier, Dieter) ★ Darstellung und Begründung einiger neuerer Ergebnisse der Funktionentheorie. (German) [Presentation and explanation of some more recent results in function theory] 88d:01046
- Panzone, R. See Benedek, A. I.; et al., 88m:00001
- Rudin, Walter ★ Real and complex analysis. 88k:00002
- Varga, Richard S. Scientific computation on some mathematical conjectures. 88j:41002

30-02 Advanced exposition (research surveys, monographs, etc.)

- Govorov, N. V. ★ Краевая задача Римана с бесконечным индексом. (Russian) [The Riemann boundary value problem with an infinite index] 88k:30001
- Jones, Peter Wilcox Some problems in complex analysis. 88a:30002
- Kuz'mina, G. V. Geometric function theory: methods and results. (Russian) 88i:30002
- (Ostrovskii, I. V.) See Govorov, N. V., 88k:30001

Items secondarily classified 30-02

- (Bili, V. I.) See Gaier, Dieter, 88i:30059a
- Bingham, N. H. (with Goldie, Charles M.; Teugels, J. L.) ★ Regular variation. 88i:26004
- Burckel, R. B. ★ Vorlesungen über Topologie der Ebene und konforme Abbildung. (German) [Lectures on the topology of the plane and conformal mapping] 88g:30009
- Gaier, Dieter ★ Лекции по теории аппроксимации в комплексной области. (Russian) [Lectures on the theory of approximation in the complex domain] 88i:30059a
- ★ Lectures on complex approximation. 88i:30059b
- Goldie, Charles M. See Bingham, N. H.; et al., 88i:26004
- (Kartashov, L. M.) See Gaier, Dieter, 88i:30059a
- (McLaughlin, Renate) See Gaier, Dieter, 88i:30059b
- Suvorov, G. D. ★ Обобщенный "принцип длины и площади" в теории отображений. (Russian) [The generalized "length and area principle" in mapping theory] 88j:30052
- (Tamrazov, P. M.) See Gaier, Dieter, 88i:30059a
- Teugels, J. L. See Bingham, N. H.; et al., 88i:26004

30-03 Historical (must also be assigned at least one classification number from Section 01)

- Askey, Richard My reaction to de Branges's proof of the Bieberbach conjecture. 88f:30001e
- de Branges, Louis The story of the verification of the Bieberbach conjecture. 88f:30001a
- Gautschi, Walter Reminiscences of my involvement in de Branges's proof of the Bieberbach conjecture. 88f:30001b

Items secondarily classified 30-03

- Ahlfors, Lars V. Classical analysis: present and future. 88e:01039
- Ahuja, O. P. The Bieberbach conjecture and its impact on the developments in geometric function theory. 88i:01060
- Bottazzini, Umberto Complex functions and multidimensional manifolds: global and local in the mathematics of B. Riemann. (Italian) 88f:01018
- ★ The higher calculus: a history of real and complex analysis from Euler to Weierstrass. 88a:01016
- Bruna, Joaquim Complex analysis: from Cauchy theory to potential theory. (Catalan) 88m:01046
- Cufi, Julià The Bieberbach conjecture. (Catalan) 88i:01064
- (Eisenreich, G.) See Klein, Felix, 88g:01071
- Gaier, Dieter See Landau, Edmund, 88d:01046
- Klein, Felix ★ Riemannsche Flächen. (German) [Riemann surfaces] 88g:01071
- Landau, Edmund (with Gaier, Dieter) ★ Darstellung und Begründung einiger neuerer Ergebnisse der Funktionentheorie. (German) [Presentation and explanation of some more recent results in function theory] 88d:01046

Langwitz, Detlef (with Rodewald, Bernd) Auf Eulers Spuren zur Gammafunktion.

[Following in Euler's tracks to the gamma function] 88h:01021

Lebedev, N. A. Geometric and constructive function theory in Leningrad. 88e:01086

Millin, I. M. Comments on the proof of the conjecture on logarithmic coefficients. 88g:30021

Prokhorov, D. V. Ranges of values of systems of functionals and integration of univalent functions. (Russian) 88i:30025

(Purkert, W.) See Klein, Felix, 88g:01071

Rodewald, Bernd See Langwitz, Detlef, 88h:01021

(Van Edmond, Warren) See Bottazzini, Umberto, 88a:01016

Zemdaek, Jarosław The Bieberbach conjecture, 1916-1984. (Polish) 88g:01038

Unauthored items

Biography:

Klein, Felix See Klein, Felix, 88g:01071

30-04 Explicit machine computation and programs (not the theory of computation or programming)

Items secondarily classified 30-04

Müller, N. Th. Uniform computational complexity of Taylor series. 88k:03088

30-06 Proceedings, conferences, etc.

(Berenstein, Carlos A.) See Complex analysis, 88g:30002; 88g:30003 and 88g:30004

(Chernikov, V. V.) See Extremal problems of the theory of functions, 88f:30002

(Ryabogin, A. K.) See Problems in the theory of special classes of functions, 88c:30001

(Sedulov, A.) See All-Union seminar: Current problems in complex analysis, 88b:30002

(Sizhak, P. I.) See Problems in the theory of special classes of functions, 88c:30001

(Yang, Chung Chun) See Analysis of one complex variable, 88g:30001

Unauthored items

All-Union seminar:

Current problems in complex analysis ★ Всесоюзный семинар молодых ученых "Актуальные вопросы комплексного анализа". (Russian) [All-Union seminar of young scientists on "Current problems in complex analysis"] 88b:30002

Analysis of one complex variable ★ Analysis of one complex variable. 88g:30001

Budva ★ Second international symposium on complex analysis and applications. 88e:30002

College Park, Md. ★ Complex analysis. I. 88g:30002

★ Complex analysis. II. 88g:30003

★ Complex analysis. III. 88g:30004

Complex analysis ★ Complex analysis. I. 88g:30002

★ Complex analysis. II. 88g:30003

★ Complex analysis. III. 88g:30004

Conference:

Complex analysis ★ Complex analysis. I. 88g:30002

★ Complex analysis. II. 88g:30003

★ Complex analysis. III. 88g:30004

Extremal problems of the theory of functions ★ Экстремальные задачи теории функций. (Russian) [Extremal problems of the theory of functions] 88f:30002

Laramie, Wyo. ★ Analysis of one complex variable. 88g:30001

Lecture Notes in Mathematics ★ Complex analysis. I. 88g:30002

★ Complex analysis. II. 88g:30003

★ Complex analysis. III. 88g:30004

Meeting:

American Mathematical Society ★ Analysis of one complex variable. 88g:30001

Problems in the theory of special classes of functions ★ Вопросы теории специальных классов функций. (Russian) [Problems in the theory of special classes of functions] 88c:30001

Session:

Analysis of one complex variable ★ Analysis of one complex variable. 88g:30001

Symposium:

Complex analysis and applications ★ Second international symposium on complex analysis and applications. 88e:30002

Tashkent ★ Всесоюзный семинар молодых ученых "Актуальные вопросы комплексного анализа". (Russian) [All-Union seminar of young scientists on "Current problems in complex analysis"] 88b:30002

Items secondarily classified 30-06

(Gohberg, I.) See Schur methods in operator theory and signal processing, 88d:00006

(Ibragimov, I. L.) See Special problems in function theory, 88j:41006

(Iliev, Lyubomir G.) See Complex analysis and applications '85, 88h:00002

(Maljica, Jorge) See Complex analysis, functional analysis and approximation theory, 88a:46001

(Ramadanov, I. P.) See Complex analysis and applications '85, 88h:00002

(Schur, I.) See Schur methods in operator theory and signal processing, 88d:00006

(Toner, Toma V.) See Complex analysis and applications '85, 88h:00002

(Ufyanov, P. L.) See Theory of functions and its applications, 88h:00017

Unauthored items

Campinas ★ Complex analysis, functional analysis and approximation theory. 88a:46001

Complex analysis and applications '85 ★ Complex analysis and applications '85. 88h:00002

Complex analysis, functional analysis and approximation theory ★ Complex analysis, functional analysis and approximation theory. 88a:46001

Conference:

Complex analysis and applications ★ Complex analysis and applications '85. 88h:00002

Conference: (cont'd.)

Complex analysis, functional analysis and approximation theory ★ Complex analysis, functional analysis and approximation theory. 88a:46001

Theory of functions and its applications ★ Теория функций и ее приложения. (Russian) [Theory of functions and its applications] 88b:00017

Moscow ★ Теория функций и ее приложения. (Russian) [Theory of functions and its applications] 88b:00017

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Theory of functions and its applications ★ Теория функций и ее приложения. (Russian) [Theory of functions and its applications] 88b:00017

Varna ★ Complex analysis and applications '85. 88h:00002

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Kuskovskii, L. N. Generalized areolar derivatives and their applications to differential equations. (Russian) 88k:30002

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Telyakovskii, D. S. Asymptotically monogenic bounded functions. (Russian) 88c:30002
A generalization of the Looman-Men'shov theorem. (Russian) 88g:30005

Items secondarily classified 30A05

Campos, L. M. B. C. On rules of derivation with complex order for analytic and branched functions. 88e:30003

Čanak, Miloš Der Begriff der inversen areolären Ableitung in der Theorie des Areolären Kettenbruchs. (Serbo-Croatian summary) [The concept of inverse areolar derivative in the theory of the areolar continued fraction] 88j:30004

Dimitrovski, D. (with Ilievski, Borko) L'équation différentielle aréolaire de Laplace et la possibilité de l'introduction des transformations de Laplace aréolaires. (Serbo-Croatian summary) [The areolar Laplace differential equation and the possibility of introducing areolar Laplace transforms] 88i:34076

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Ralević, N. V. Linear p -areolar differential equations with constant coefficients. (Serbo-Croatian summary) 88h:30074

Sakai, Makoto Domains having null complex moments. 88e:31002

30A10 Inequalities in the complex domain

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Grigoryan, F. P. See Karstyan, E. V.; et al., 88f:90136

Hinkkanen, A. On the majorization of analytic functions. 88g:30030

Karstyan, E. V. (with Grigoryan, F. P.; Aleksandryan, V. G.) A problem of nonlinear programming in the complex plane. (Russian. Armenian summary) 88f:90136

Li, Chéng Hsiung (with DeTemple, Duane W.; Cochran, James A.) Two new proofs of Milin's inequality. 88d:30003

Milovanović, I. Ž. An inequality concerning algebraic polynomials. 88j:30008

Obradović, Milutin On certain inequalities of integral type for some regular functions. (Serbo-Croatian summary) 88e:30037

30A99 None of the above, but in this section

Campos, L. M. B. C. On rules of derivation with complex order for analytic and branched functions. 88e:30003

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Ortel, M. (with Schneider, Walter J.) The parametric Gauss-Green theorem. 88g:30045

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30Bxx Series expansions

30B10 Power series (including lacunary series)

Alpár, L. On the change of variable of absolutely convergent power and Laurent series on the unit circle. 88f:30003

Arakelyan, N. U. (with Martirosyan, V. A.) The location of singularities of power series on the boundary of the disk of convergence. (Russian. English and Armenian summaries) 88k:30003

Buslaev, V. I. Relations for the coefficients and the singular points of a function. 88c:30004

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Li, Chéng Hsiung (with DeTemple, Duane W.; Cochran, James A.) Two new proofs of Milin's inequality. 88d:30003

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- Neamtu, N. N. The Laplace-Dirichlet method for determining the sum of power series. (Romanian summary) **88c:30005**
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- Walker, W. J. See Schiff, J. L., **88b:30003**
- Yamashita, Shinji A gap series with growth conditions and its applications. **88m:30002**
- Yankov, P. On the singular points of analytic functions defined by their Taylor series expansions. (Bulgarian. French and Russian summaries) (Not in MR)

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- Anderson, James Milne (with Pitt, L. D.) On recurrence properties of certain lacunary series. I. General results. **88i:30005a**
- (with Pitt, L. D.) On recurrence properties of certain lacunary series. II. The series $\sum_{k=1}^n \exp(i\lambda^k \theta)$. **88i:30005b**
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- Castro, Eduardo A. See Fernández, Francisco M.; et al., **88m:65046**
- Fernández, Francisco M. (with Arteca, Gustavo A.; Castro, Eduardo A.) Singular points from Taylor series. **88m:65046**
- Gauschke-Hauschild, D. (with Pommerenke, Christian) On Bloch functions and gap series. **88a:30072**
- Gong, Sheng A remark on the Möbius transformations. II. (Chinese. English summary) **88c:32007b**
- A remark on the Möbius transformations. I. (Chinese. English summary) **88c:32007a**
- (with Yan, Zhi Min) A remark on Möbius transformations. III. (Chinese. English summary) **88c:32007c**
- Goodman, A. W. An entire function that gives the Fibonacci numbers at the integers. **88b:30040**
- Grenander, Ulf (with Szegő, Gábor) Toeplitz forms and their applications. **88b:42031**
- Hwang, Jun Shung On Hadamard gap series and errata to Plessner, Julia, and ρ^* -points. **88b:30049**
- Ivanov, K. G. (with Sharma, Ambikeshwar) Some new results on Walsh theory of equiconvergence. (See **88c:00007**)
- Khavinson, D. (with Luecking, Daniel H.) On an extremal problem in the theory of rational approximation. **88g:41013**
- Kongsakorn, Kannika (with Laohakosol, Vichian) A generalization of Eisenstein's theorem. **88b:11079**
- Laohakosol, Vichian See Kongsakorn, Kannika, **88b:11079**
- Labinsky, D. S. Uniform convergence of rows of the Padé table for functions with smooth Maclaurin series coefficients. **88k:30046**
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- Nishio, Kumiko Conditions for algebraic independence of certain power series of algebraic numbers. **88c:11063**
- Pitt, L. D. See Anderson, James Milne, **88i:30005a** and **88i:30005b**
- Pommerenke, Christian See Gauschke-Hauschild, D., **88a:30072**
- Reczek, K. Hyperbolic approximation of meromorphic functions. **88b:30059**
- Sharma, Ambikeshwar See Ivanov, K. G., (**88c:00007**)
- Srivastava, Hari M. Summation of a class of series involving the Riemann zeta function. (Spanish summary) **88g:11056**
- Szegő, Gábor See Grenander, Ulf, **88b:42031**
- Trojan, G. M. Generalized Faber polynomials and an optimal error recovery algorithm. **88d:65048**
- Yan, Zhi Min See Gong, Sheng, **88c:32007c**

30B30 Boundary behavior of power series, over-convergence

- Gingold, H. Conformal maps in methods of asymptotic continuation. **88i:30004**
- Mavrod, N. N. On the overconvergence of some classes of power series. (Russian) **88c:30004**
- Micchelli, Charles A. (with Rivlin, T. J.) An optimal recovery view of Walsh's equiconvergence theorem. **88k:30004**
- Rivlin, T. J. See Micchelli, Charles A., **88k:30004**
- Setta, S. A. S_p transform and uniform convergence of Laurent and power series. **88f:30004**
- Tanaka, Chujō On the cluster-set theoretic extension of A. Tauber's theorem. **88j:30001**

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- Lou, Yuan Ren Extensions of a theorem of J. L. Walsh on the overconvergence. **88b:30060**
- Riekski, E. Asymptotic expansion of the sum of a power series. (Russian) **88b:30063**
- Totik, V. Quantitative results in the theory of overconvergence of complex interpolating polynomials. **88i:30057**

30B40 Analytic continuation

- Berenstein, Carlos A. (with Struppa, Daniele) On the Fabry-Ehrenpreis-Kawai gap theorem. **88j:30002**
- Kaufman, Robert P. Plane curves and removable sets. **88c:30005**
- Odvirkov-Budko, B. I. Estimates for conditional stability in the problem of analytic continuation from a subdomain of a domain of regularity. (Russian) **88c:30006**
- Prilepko, A. I. Analytic continuation of the logarithmic potential and of an integral of Cauchy type. (Russian) (See **88g:00008**)
- Stahl, Herbert Extremal domains associated with an analytic function. I, II. **88d:30004a**
- The structure of extremal domains associated with an analytic function. **88d:30004b**
- Struppa, Daniele See Berenstein, Carlos A., **88j:30002**

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- Arakelyan, N. U. (with Martirosyan, V. A.) The location of singularities of power series on the boundary of the disk of convergence. (Russian. English and Armenian summaries) **88k:30003**
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- Delanghe, Richard (with Brackx, F.; Pincket, W.) On domains of monogenicity in Clifford analysis. **88c:30120**

- Fan, Ai Hua Quasi-sure singularities of double Dirichlet series. (Chinese. English summary) **88c:30008**
- Gingold, H. Conformal maps in methods of asymptotic continuation. **88i:30004**
- Illán González, Jesús Estimates for the best rational approximation of H^p functions. **88a:41010**
- Kaufman, Robert P. Correction to: "Plane curves and removable sets" [Pacific J. Math. **125** (1986), no. 2, 409-413; MR **88c:30005**]. **88i:26051**
- Kovacheva, Ralitsa K. Best Chebyshev rational approximants and poles of functions. **88k:41022**
- Le ba Kkhan' Chin' On the m th row of a table of multipoint Padé approximations. (Russian) **88c:30097**
- Leont'ev, A. F. On the quasi-analytic noncontinuity of a function defined by a series of exponentials. **88i:30056**
- Martirosyan, V. A. See Arakelyan, N. U., **88k:30003**
- Musoyan, V. Kh. Analytic continuation and extremal properties of functions approximable by an incomplete system of exponentials. (Russian. English and Armenian summaries) **88c:30103**
- Pincket, W. See Delanghe, Richard; et al., **88c:30120**
- Stefanescu, I. Sabba Numerical methods for analytic continuation and mesh generation. **88c:65031**
- Verdera, Joan BMO rational approximation and one-dimensional Hausdorff content. **88a:30083**
- Yankov, P. On the singular points of analytic functions defined by their Taylor series expansions. (Bulgarian. French and Russian summaries) (Not in MR)

30B50 Dirichlet series and other series expansions, exponential series [See also 40-XX, 41-XX, 42-XX.]

- Abou-Tair, Ibrahim A. Functional equation of a special Dirichlet series. **88c:30006**
- Anderson, James Milne (with Pitt, L. D.) On recurrence properties of certain lacunary series. I. General results. **88i:30005a**
- (with Pitt, L. D.) On recurrence properties of certain lacunary series. II. The series $\sum_{k=1}^n \exp(i\lambda^k \theta)$. **88i:30005b**
- Balakrishnan, Uckath-Variyath Laurent expansion of Dirichlet series. **88c:30007**
- Deng, Guan Tie Uniqueness of some holomorphic functions. **88d:30005**
- Fan, Ai Hua Quasi-sure singularities of double Dirichlet series. (Chinese. English summary) **88c:30008**
- Golightly, George O. Absolutely convergent Lidstone series. **88c:30009**
- Ha Duy Bang Absolutely convergent series of exponential polynomials. (Russian) **88d:30006**
- Kumar, Naresh (with Srivastava, G. S.) The mean values of an analytic function represented by Dirichlet series. II. **88b:30004**
- McNeil, Yu. I. Some properties of series of exponentials representing functions that are regular in convex polygons. (Russian) **88f:30005**
- Pitt, L. D. See Anderson, James Milne, **88i:30005a** and **88i:30005b**
- Saaryan, A. A. On a formula of Abel-Plana summation. (Russian. English and Armenian summaries) **88c:30010**
- Simonzenkov, S. D. Expansion of holomorphic functions in partial fractions. (Russian) **88m:30003**
- Srivastava, G. S. See Kumar, Naresh, **88b:30004**
- Viswanath, G. R. On convergence and regularity of regular Ritt series. **88c:30007**
- On further questions concerning the convergence and singularities of regular Ritt series. **88a:30003**
- Xie, Jian Xin On the Hurwitz composition theorem for Dirichlet series. (Chinese. English summary) **88m:30004**

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- Borwein, David Tauberian and other theorems concerning Dirichlet's series with nonnegative coefficients. **88m:40012**
- Chan, Ling Yau On L^p -behaviour and Lipschitz behaviour of Dirichlet series and power series. **88d:40001**
- Danielyan, A. A. On the representation of functions by sequences of uniformly bounded polynomials on compact sets of the complex plane. (Russian. English and Armenian summaries) **88f:30056**
- Jain, Pawan Kumar See Kamthan, P. K., **88f:30042**
- Kamthan, P. K. (with Jain, Pawan Kumar) On the mean values of an entire function represented by Dirichlet series. **88f:30042**
- Kumar, Naresh On the mean values of a function analytic in the half-plane. I. **88a:30059**
- Leont'ev, A. F. Series and sequences of polynomials of exponentials. (Russian) **88m:30089**
- McCarthy, Paul J. Generating functions of powers of the Ramanujan sum and other even functions. **88m:11067**
- Seidman, Thomas I. The coefficient map for certain exponential sums. **88c:42020**
- Sheremeta, M. N. See Skaskiv, O. B., **88c:30074**
- Skaskiv, O. B. (with Sheremeta, M. N.) On the asymptotic behavior of entire Dirichlet series. **88c:30074**
- Šlaković, Semiha R_1 -summability of the Dirichlet series. (Serbo-Croatian. English summary) **88m:40015**
- Srivastava, Hari M. Summation of a class of series involving the Riemann zeta function. (Spanish summary) **88g:11056**

30B60 Completeness problems, closure of a system of functions

- Khachatryan, I. O. Quasianalytic classes connected with weighted approximations in the complex domain. (Russian. English and Armenian summaries) **88b:30001**
- Timofeev, A. Yu. Representation of a class of analytic functions in the form of a sum of subclasses. (Russian) **88j:30003**

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- Musoyan, V. Kh. Analytic continuation and extremal properties of functions approximable by an incomplete system of exponentials. (Russian. English and Armenian summaries) 88e:30103
- Shen, Xie Chang The basis and moment problems of some systems of analytic functions. 88f:30060
- Some problems concerning the system of functions $\{e^{-\mu_n x} x^{a_n-1}\}$. (Chinese) 88g:42014

30B70 Continued fractions [See also 11A55, 40A15.]

- de Bruin, M. G. (with Gilewicz, J.; Runckel, Hans-J.) A survey of bounds for the zeros of analytic functions obtained by continued fraction methods. 88f:30006
- Čanak, Miloš Der Begriff der inversen areolären Ableitung in der Theorie des Areolären Kettenbrüches. (Serbo-Croatian summary) [The concept of inverse areolar derivative in the theory of the areolar continued fraction] 88j:30004
- Gilewicz, J. See de Bruin, M. G.; et al., 88f:30006
- Jacobsen, Lisa A theorem on simple convergence regions for continued fractions $K(a_n/1)$. 88f:30007
- (with Jones, William B.; Waadeland, Haakon) Convergence acceleration for continued fractions $K(a_n/1)$, where $a_n \rightarrow \infty$. 88i:30006
- (with Ruscheweyh, S.) On the domain of meromorphy of limit k -periodic continued fractions. 88f:30008
- Jones, William B. (with Njåstad, Olav; Thron, W. J.) Schur fractions, Perron-Carathéodory fractions and Szegő polynomials, a survey. 88h:30005
- (with Njåstad, Olav; Thron, W. J.) Perron-Carathéodory continued fractions. 88h:30002
- See also Jacobsen, Lisa; et al., 88i:30006
- Kovacheva, Ralitsa K. Uniform convergence of the Padé approximants in the class of analytic functions: diagonal case. 88c:30008
- Kuchminskaya, Kh. I. (with Siemaszko, Wojciech) Rational approximation and interpolation of functions by branched continued fractions. 88j:30005
- Lange, L. J. Continued fraction applications to zero location. 88g:30006
- Lia, Jing An extension of Wilson's theorem. (Chinese. English summary) 88m:30005
- Njåstad, Olav See Jones, William B.; et al., 88h:30005 and 88h:30002
- Parusnikov, V. I. On the convergence of the multidimensional limit-periodic continued fractions. 88i:30007
- Runckel, Hans-J. See de Bruin, M. G.; et al., 88f:30006
- Ruscheweyh, S. See Jacobsen, Lisa, 88f:30008
- Siemaszko, Wojciech See Kuchminskaya, Kh. I., 88j:30005
- Sri Ranga, A. J -fractions and strong moment problems. 88h:30003
- Convergence properties of a class of J -fractions. 88h:30004
- Thron, W. J. See Jones, William B.; et al., 88h:30005 and 88h:30002
- Waadeland, Haakon A note on partial derivatives of continued fractions. 88e:30011
- Local properties of continued fractions. 88j:30006
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- Zarudnyak, L. V. A method for the expansion of functions in an associated continued fraction. (Russian) 88m:30006

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- Bessis, D. (with Turchetti, G.; Van Assche, Walter) Smoothness conditions for Stieltjes measures from Padé approximants. 88h:41026
- Bodnar, D. I. * Ветвящиеся цепные дроби. (Russian) [Branching continued fractions] 88g:40003
- de Bruin, M. G. (with Jacobsen, Lisa) Modification of generalised continued fractions. I. Definition and application to the limit-periodic case. 88f:40003
- Chyp, M. N. Off-diagonal Padé approximation of a function of Mittag-Leffler type $E_{1/2}(\lambda; \lambda)$, $\operatorname{Re} \lambda > 0$. (Russian) 88d:30044
- Cuyt, A. The Euler-Minding series for branched continued fractions. 88d:40008
- Grosso, G. (with Pastori Parravicini, G.) Continued fractions in the theory of relaxation. (See 88e:82001)
- Jacobsen, Lisa (with Thron, W. J.) Oval convergence regions and circular limit regions for continued fractions $K(a_n/1)$. 88c:40004
- (with Thron, W. J.) Limiting structures for sequences of linear fractional transformations. 88d:40010
- See also de Bruin, M. G., 88f:40003
- Jones, William B. (with Njåstad, Olav; Thron, W. J.) Continued fractions associated with trigonometric and other strong moment problems. 88m:30007
- Moussa, Pierre Application of rational approximations to some functional equations. 88h:30037
- Njåstad, Olav See Jones, William B.; et al., 88m:30007
- Pastori Parravicini, G. See Grosso, G., (88e:82001)
- Pollicott, Mark Distribution of closed geodesics on the modular surface and quadratic irrationals. 88j:58102
- Runckel, Hans-J. Pole- and zero-free regions for analytic continued fractions. 88h:30009
- Thron, W. J. See Jacobsen, Lisa, 88c:40004; 88d:40010 and Jones, William B.; et al., 88m:30007
- Turchetti, G. See Bessis, D.; et al., 88h:41026
- Van Assche, Walter See Bessis, D.; et al., 88h:41026

30B99 None of the above, but in this section

- Safonov, K. V. On conditions for the sum of a power series to be algebraic and rational. (Russian) 88g:30007

30Cxx Geometric function theory

30C10 Polynomials

- Al-Rashed, Abdallah M. (with Zaheer, Neyamat) Co-convexial reflector curves with applications. 88e:30012
- Aziz, Abdul¹ Growth of polynomials whose zeros are within or outside a circle. 88f:30009
- Boyanov, Borislav D. (with Rahman, Q. I.; Szyal, Jan) On a conjecture about the critical points of a polynomial. 88e:30013
- Clunie, J. (with Ruscheweyh, S.; Salinas Carrasco, Luis) On a conjecture of Brickman concerning complex polynomials. 88e:30014
- Cohen, G. L. (with Smith, G. H.) A proof of Ilieff's conjecture for polynomials with four zeros. 88m:30007
- Dimkov, Georgi On a class of polynomials. II. 88m:30008
- Le produit d'Hadarnard et certaines propriétés d'une classe de polynômes. [The Hadarnard product and some properties of a class of polynomials] 88a:30004
- Dobbertin, Hans (with Schmieder, Gerald) Zur Charakterisierung von Polynomen durch ihre Null- und Einstellen. [On the characterization of polynomials by their zeros and ones] 88d:30007
- Gautschi, Walter (with Landau, Henry J.; Milovanović, Gradimir V.) Polynomials orthogonal on the semicircle. II. 88j:30007
- Goldstein, Myron An extremal problem for polynomials. 88a:30005
- Grushevskii, S. P. Some applications of estimates of weak type for nontangential maximal functions. (Russian) 88h:30006
- Hering, Hermann Beweis des Fundamentalsatzes der Algebra als Anwendung des Sperserschen Lemmas. [Proof of the fundamental theorem of algebra as application of Sperner's lemma] 88e:30015
- Jain, Vinod Kumar On the zeros of a polynomial. 88m:30009
- Kasandrova, Ivanka M. (with Kostova, Mariya D.) Differential operators and zeros of polynomials. 88m:30010
- Kasten, Volker Polynomial classes with a certain test property. 88a:30006
- Köno, Norio Démonstration probabiliste du théorème de d'Alembert. [Probabilistic proof of d'Alembert's theorem] 88h:30005
- Kostova, Mariya D. See Kasandrova, Ivanka M., 88m:30010
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- Landau, Henry J. See Gautschi, Walter; et al., 88j:30007
- Meyer, Gottfried Peter * Inversion von Exponentialpolynomen in der Nähe von transzendent kritischen Stellen. (German) [Inversion of exponential polynomials in the proximity of transcendental critical points] 88c:30010
- Milovanović, Gradimir V. See Gautschi, Walter; et al., 88j:30007
- Milovanović, I. Ž. An inequality concerning algebraic polynomials. 88j:30008
- Pandey, Ram Nakshatra (with Tewari, N. K.; Pandey, Sharad Kumar) Asymptotic behaviour of the polynomial set $\{Z_{n,n}^*(x, y)\}$. (Hindi. English summary) 88j:30009
- Pandey, Sharad Kumar See Pandey, Ram Nakshatra; et al., 88j:30009
- Rahman, Q. I. (with Tariq, Q. M.) On a problem related to the conjecture of Sendov about the critical points of a polynomial. 88m:30011
- See also Boyanov, Borislav D.; et al., 88e:30013
- Ruscheweyh, S. (with Varga, Richard S.) On the minimum moduli of normalized polynomials with two prescribed values. 88e:30016
- See also Clunie, J.; et al., 88e:30014
- Saffari, Bahman Structure algébrique sur les couples de Rudin-Shapiro. Problème extrême de Salem sur les polynômes à coefficients ± 1 . (English summary) [Algebraic structure on Rudin-Shapiro pairs. Salem's extremal problem on polynomials with coefficients ± 1] 88d:30008
- Salinas Carrasco, Luis See Clunie, J.; et al., 88e:30014
- Schmieder, Gerald See Dobbertin, Hans, 88d:30007
- Smith, G. H. See Cohen, G. L., 88m:30007
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- Tewari, N. K. See Pandey, Ram Nakshatra; et al., 88j:30009
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- Edrei, Albert Zeros of successive derivatives of analytic functions having a single essential singularity. 88m:30013
- Galántai, Aurél On the optimization of the Lehmer-Schur method. (Hungarian. English summary) 88a:65033
- Jain, Vinay Kumar On the zeros of polynomials. II. 88h:30008
- Lange, L. J. Continued fraction applications to zero location. 88g:30006
- López Lagomasino, Guillermo Asymptotic convergence of the ratio of orthogonal polynomials with respect to varying measures. 88c:41032
- Mamedov, Yu. A. Investigation of certain quasipolynomials connected with the solution of irregular boundary value problems. (Russian) 88f:34037
- Sun, Xie Hua A note on a problem of R. P. Boas. 88d:30002
- Trimble, S. Y. Typically real functions and typically real derivatives. 88i:30020
- Wakabayashi, Seiichiro Remarks on hyperbolic polynomials. 88i:35095

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) [For algebraic theory, see 12D10; for real methods, see 26C10.]

- Berg, Lothar Abschätzung von Nullstellen eines Polynoms. [Estimating the zeroes of a polynomial] 88e:30017
- Berman, Robert D. (with Brown, Leon; Cohn, William S.) Moduli of continuity and generalized BCH sets. 88j:30010
- Brown, Leon See Berman, Robert D.; et al., 88j:30010

- Cohn, William S. See Berman, Robert D.; et al., 88j:30010
- Conant, R. J. On the roots of $f_n(z) = a + K_{n+1}(z)/zK_n(z)$. 88c:30011
- Craven, Thomas (with Csordas, George; Smith, Wayne Stewart) The zeros of derivatives of entire functions and the Pólya-Wiman conjecture. 88a:30007
- Csordas, George See Craven, Thomas; et al., 88a:30007
- Delange, Hubert Sur les zéros imaginaires des polynômes de Bernoulli. (English summary) [On the imaginary roots of Bernoulli polynomials] 88d:30009
- Dimova, E. A. Composition theorems of Laguerre type. 88a:30008
- On the localization of the zeros of some composed polynomials and entire functions. 88m:30012
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- Sharma, Ambikeshwar (with Ziegler, Z.) Correction to: "Walsh equiconvergence for best l_2 -approximates" [Studia Math. 77 (1984), no. 5, 523–528; MR 86a:30061]. 88j:30085
- Shen, Xie Chang The basis and moment problems of some systems of analytic functions. 88f:30060
- Siemaszko, Wojciech See Kuchminskaya, Kh. I., 88j:30005
- Sonnevend, G. A class of sequential algorithms for spectral approximation with rational and with Haar functions. 88h:42005
- Struppa, Daniele See Gentili, Graziano, 88d:30041
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- Zames, G. (with Tannenbaum, A.; Foias, C.) Optimal H^∞ -interpolation: a new approach. 88m:93045
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- Atnulloev, N. (with Taikov, L. V.) Best approximation in Molmogorov's sense of classes of functions analytic in the unit disk. (Russian) 88k:30044
- (Bili, V. I.) See Gaier, Dieter, 88i:30059a
- Blatt, Hans-Peter (with Saff, E. B.) Distribution of zeros of polynomial sequences, especially best approximations. 88g:30042
- Boivin, André (with Gauthier, P. M.; Hengartner, W.) Approximation uniforme par des fonctions harmoniques avec singularités. [Uniform approximation by harmonic functions with singularities] 88d:30043
- Borwein, Peter B. Quadratic and higher order Padé approximants. 88j:30081
- Boydzhieva, T. P. A remark on a theorem of Bernstein-Walsh. 88a:30078
- Braess, Dietrich Rational approximation of Stieltjes functions by the Carathéodory-Fejér method. 88j:30082
- Chyp, M. N. Off-diagonal Padé approximation of a function of Mittag-Leffler type $E_{1/2}(z; \lambda)$, $\operatorname{Re} \lambda > 0$. (Russian) 88d:30044
- Danielyan, A. A. On the representation of functions by sequences of uniformly bounded polynomials on compact sets of the complex plane. (Russian. English and Armenian summaries) 88f:30056
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- ★ Lectures on complex approximation. 88i:30059b
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- Große-Erdmann, Karl-Goswin Holomorphe Monster und universelle Funktionen. [Holomorphic monsters and universal functions] 88i:30060
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- López Lagomasino, Guillermo Survey on multipoint Padé approximation to Markov type meromorphic functions and asymptotic properties of the orthogonal polynomials generated by them. 88d:30047
- Lubinsky, D. S. Uniform convergence of rows of the Padé table for functions with smooth Maclaurin series coefficients. 88k:30046
- (with Saff, E. B.) Convergence of Padé approximants of partial theta functions and the Rogers-Szegő polynomials. 88m:30092
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- Neresyan, A. A. Harmonic approximation and the solution of a problem of L. A. Rubel. (Russian. Armenian summary) (Not in MR)
- On functions that are approximable on closed subsets of the complex plane. (Russian. English and Armenian summaries) 88h:30058
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- Sharma, Ambikeshwar Some recent results on Walsh theory of equiconvergence. 88i:30065
- (with Ziegler, Z.) Correction to: "Walsh equiconvergence for best l_2 -approximates" [Studia Math. 77 (1984), no. 5, 523–528; MR 86a:30061]. 88j:30085
- See also Dikshit, H. P.; et al., 88d:30045
- Shen, Xie Chang The basis and moment problems of some systems of analytic functions. 88f:30060
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- Adžievski, Kuzman The analytic α -capacity and the Cauchy integral. (Serbo-Croatian summary) (See 88e:30002)
- Aizenberg, L. A. Multidimensional analogues of the Carleman formula with integration over boundary sets of maximal dimension. (Russian) 88f:32016
- Bennett, Collin (with Stoll, Manfred) Derivatives of analytic functions and bounded mean oscillation. 88a:30074
- Campos, L. M. B. C. On rules of derivation with complex order for analytic and branched functions. 88e:30003
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- Dzhuraev, A. D. Generalization of the Bergman's kernel function. 88e:30025
- Moore, Charles N. The corona theorem for domains whose boundary lies in a smooth curve. 88h:30055
- Mzhaviya, G. M. An integral equation with complex conjugation. (Russian. English and Georgian summaries) 88f:45007
- Nagel, Alexander (with Vance, James; Wainger, Stephen; Weinberg, David A.) The Hilbert transform for convex curves in \mathbb{R}^n . 88d:42025
- Nestoridis, V. Holomorphic functions, measures and BMO. 88h:30056
- Niggemann, Michael An isomorphism of Paley-Wiener type. 88a:30075
- Patsevich, E. L. Construction of the Schwarz operator in a circular countably connected σ -domain by the symmetry method. (Russian) 88e:30026
- Prilepko, A. I. Analytic continuation of the logarithmic potential and of an integral of Cauchy type. (Russian) (See 88g:00008)
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- Afyan, S. K. The Riemann-Hilbert boundary value problem for a class of elliptic systems with degeneration both inside and on the boundary of the domain. (Russian. Armenian summary) (Not in MR)
- Airapetyan, G. M. A boundary value problem of conjugation with shift in the class L^1 . (Russian. English and Armenian summaries) 88i:30068
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- Akhalya, G. Ya. The Riemann-Hilbert boundary value problem for generalized analytic functions in domains with corner points. (Russian. English and Georgian summaries) 88h:30066
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- Bena, Dorin The Riemann-Hilbert problem with given singularities. (Romanian. French summary) 88f:30064
- Birger, I. I. (with Dybin, V. B.) The homogeneous Riemann boundary value problem with power-logarithmic singularities in its coefficients. (Russian) 88e:30105
- Chang, Chul Su On an oblique derivative boundary value problem for holomorphic vector. (Korean. English summary) 88k:30049
- Choe, Jang Rok A boundary value problem of meta-analytic function in the unit circle. (Korean. English summary) 88e:30106
- Danilov, E. A. The homogeneous Riemann problem with an infinite index of power order on a logarithmic spiral. (Russian) 88h:30067
- Demetrashvili, I. G. Solution of a boundary value problem of the theory of analytic functions for doubly connected domains. (Russian. English and Georgian summaries) 88f:30065
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- Dzheldubaev, R. Theorem for the existence of homeomorphic solutions of a class of equations that are nearly quasilinear. (Russian) (See 88d:00001)
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- Gribnyak, L. N. (with Tikhonenko, N. Ya.) On the approximate solution of a three-element boundary value problem with shift and its applications. (Russian) 88d:30049
- Grudskii, S. M. The Riemann boundary value problem with semi-almost-periodic discontinuities in the space $L_p(\Gamma, \rho)$. (Russian) 88i:30069
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- Kapshiriy, A. A. (with Yakovenko, V. M.) On the solution of boundary value problems of x^k -analytic functions for a half plane with two cuts. (Russian) 88f:30066
- Boundary value problems of x -analytic functions for a half disk containing a system of deleted half disks. (Russian) 88j:30086
- Kats, B. A. (with Mironova, S. R.) On the Riemann boundary value problem on a countable set of curves with coefficients admitting power singularities. (Russian) 88e:30067
- A jump problem and an integral over a nonrectifiable curve. (Russian) 88j:30087
- Khaikin, M. I. On the theory of a singular case of the Riemann boundary value problem for several pairs of functions and systems of singular integral equations. (Russian) 88d:30050
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30Gxx Generalized function theory

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- Andreian Cazacu, Cabiria Simion Stoilow (1887-1961) and the topological theory of analytic functions. 88m:01055
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30G20 Generalizations of Bers or Vekua type (pseudanalytic, p -analytic, etc.)

- Aleksandrovich, I. N. (with Pakhareva, N. A.) Some theorems for the uniform approximation of y^p -analytic functions. (Russian) 88f:30080
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30G99 None of the above, but in this section

- Hou, Zong Yi Nonlinear Hilbert boundary value problems in hypercomplex function theory. (Chinese. English summary) 88k:30060
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30H05 Spaces and algebras of analytic functions [See also 32E25, 46Exx, 46J15.]

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- Axler, Sheldon (with Shields, Allen) Algebras generated by analytic and harmonic functions. 88h:46102
- Bezanilla López, Arnoldo Classes of L -equations solvable in $C(I)$. (Spanish. English summary) 88k:46059a
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- Platonov, S. S. Subspaces of entire functions invariant with respect to differentiation. (Russian) 88a:46023
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- Taguchi, Yoshiko A characterization of the space of Sato-hyperfunctions on the unit circle. 88g:46057
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- Volberg, A. L. (with Tolokonnikov, V. A.) Hankel operators and problems of best approximation of unbounded functions. (Russian. English summary) 88c:30043
- Wang, Jian A corona theorem on a class of infinitely connected domains. (Chinese. English summary) 88f:30052
- Weiss, Max L. See Abram, Thomas J., 88a:46053
- Yakubovich, D. V. Linearly similar models of the Toeplitz operator. (Russian. English summary) 88j:47032

31-XX Potential theory {For probabilistic potential theory, see 60J45.}

31-01 Elementary exposition; textbooks

- Ancona, Alano L'énergie et la théorie du potentiel dans l'œuvre de Jacques Deny. [Energy and potential theory in the works of Jacques Deny] 88g:31001
- (Deny, Jacques) See Ancona, Alano, 88g:31001
- Fuglede, Bent Fine potential theory—a survey. 88b:31001
- Takenuchi, Yu Harmonic functions on the circle. (Spanish) (Not in MR)

Items secondarily classified 31-01

- Axler, Sheldon Harmonic functions from a complex analysis viewpoint. 88b:31002
- Benedek, A. I. (with Fernández Stacco, Edgardo; Panzone, R.) ★ Lecciones complementarias de análisis superior. (Spanish) [Complementary lectures in higher analysis] 88m:00001
- Fernández Stacco, Edgardo See Benedek, A. I.; et al., 88m:00001
- Panzone, R. See Benedek, A. I.; et al., 88m:00001

31-02 Advanced exposition (research surveys, monographs, etc.)

- Bliedtner, J. (with Hansen, Wolfhard) ★ Potential theory. 88b:31002
- (Deny, Jacques) See Hirsch, Francis, 88b:31001
- Hansen, Wolfhard See Bliedtner, J., 88b:31002
- Hirsch, Francis Aspects linéaires de la théorie du potentiel dans les travaux de Jacques Deny. [Linear aspects of potential theory in the works of Jacques Deny] 88b:31001

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- Dellacherie, Claude (with Meyer, Paul-André) ★ Probabilités et potentiel. Chapitres XII–XVI. (French) [Probability and potential. Chapters XII–XVI] 88k:60002
- Meyer, Paul-André See Dellacherie, Claude, 88k:60002

31-03 Historical (must also be assigned at least one classification number from Section 01)

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- Ancona, Alano L'énergie et la théorie du potentiel dans l'œuvre de Jacques Deny. [Energy and potential theory in the works of Jacques Deny] 88g:31001
- Andrianova, N. B. Mathematical methods in electrostatics in the first half of the nineteenth century. (Russian) 88i:01041
- Bouleau, Nicolas La jonction entre la théorie du potentiel et les probabilités. [The junction of potential theory and probability theory] 88c:01002
- Choquet, Gustave La naissance de la théorie des capacités: réflexion sur une expérience personnelle. [The birth of capacity theory: reflections on a personal experience] 88a:01024
- (Deny, Jacques) See Ancona, Alano, 88g:31001 and Hirsch, Francis, 88b:31001
- Hirsch, Francis Aspects linéaires de la théorie du potentiel dans les travaux de Jacques Deny. [Linear aspects of potential theory in the works of Jacques Deny] 88b:31001

31-06 Proceedings, conferences, etc.

- (Deny, Jacques) See *Potential theory*, 88d:31001
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- Jyväskylä ★ *Proceedings of the summer school in potential theory at Jyväskylä*. 88b:31003
Lecture Notes in Mathematics ★ *Théorie du potentiel*. (French) [Potential theory] 88d:31001

- Orsay ★ *Théorie du potentiel*. (French) [Potential theory] 88d:31001

- Potential theory ★ *Théorie du potentiel*. (French) [Potential theory] 88d:31001

- Potential theory and its related fields ★ *Potential theory and its related fields*. 88j:31001

Proceedings:

- Summer school in potential theory ★ *Proceedings of the summer school in potential theory at Jyväskylä*. 88b:31003

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- Potential theory ★ *Proceedings of the summer school in potential theory at Jyväskylä*. 88b:31003

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- Potential theory and its related fields ★ *Potential theory and its related fields*. 88j:31001
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- Armitage, David H. (with Goldstein, Myron) Some remarks on mean-values of subharmonic functions. 88a:31008
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31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85.]

- Bossel, Marie-Hélène Longueurs extrémales et fonctionnelles de domaine. (English summary) [Extremal lengths and domain functionals] 88b:31004
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- Korányi, Adam (with Picardello, Massimo A.) Boundary behaviour of eigenfunctions of the Laplace operator on trees. 88d:31003
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- Cohen, Jonathan (with Gosselin, John) Adjoint boundary value problems for the biharmonic equation on C^1 domains in the plane. 88d:31006
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- Gosselin, John See Cohen, Jonathan, 88d:31006
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31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

- Atakhodjaev, M. A. Dense solvability of an ill-posed problem for the biharmonic equation. (Not in MR)
 Cohen, Jonathan (with Gosselin, John) Adjoint boundary value problems for the biharmonic equation on C^1 domains in the plane. 88d:31006
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 Stolle, H.-W. (with Skrzyszka, U.) The Dirichlet problem for the polyharmonic equation in the plane. (See 88j:00018)
 Skrzyszka, U. Das Dirichletproblem für den polyharmonischen Operator in C^1 -Gebieten der Ebene. [The Dirichlet problem for the polyharmonic operator in C^1 -domains of the plane] 88j:31002
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- Fan, Wei Xun A note on biharmonic functions. (See 88b:73003)
 Tavkhelidze, I. N. Natural boundary conditions for the polyharmonic equation in the plane. (Russian) 88i:35049

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- Kenig, C. E. Elliptic boundary value problems on Lipschitz domains. 88a:35066

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- Wittmann, Rainer Semigroups related to Dirichlet's problem with applications to Fatou theorems. 88c:31006

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- Alkawa, Hiroaki On subharmonic functions in strips. 88a:31005
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- Chizhov, V. E. On some properties of circular and spherical harmonics. (Russian) (See 88g:00008)
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 Tamrazov, P. M. Quasisubharmonic functions and the elimination of singularities. (Russian) 88f:31008

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- Fabrikant, V. I. A new approach to some problems in potential theory. (German and Russian summaries) 88c:31005

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31B15 Potentials and capacities, extremal length

- Ancona, Alano Sur une conjecture concernant la capacité et l'effilement. [On a conjecture concerning capacity and thinness] 88f:31006
 Kahane, Jean-Pierre Dimension capacitaire et dimension de Hausdorff. [Capacitive dimension and Hausdorff dimension] 88f:31007
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 Liang, Xi Ting Some theorems concerning potential integrals. (Chinese. English summary) 88b:31012a
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- Tamrazov, P. M. Quasiharmonic functions and the elimination of singularities. (Russian) **88f:31008**
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- Zoril, N. V. An extremal problem of the energy minimum for space condensers and Riesz kernels. (Russian) **88g:31012**
- Functional characteristics of space condensers: their properties, the relations between them. (Russian) **88k:31006**

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- Bañuelos, R. (with Øksendal, B.) A stochastic approach to quasi-everywhere boundary convergence of harmonic functions. **88e:31013**
- Burzy, Krzysztof. Brownian excursions and minimal thinness. II. Applications to boundary behavior of the Green function. **88h:60150**
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- Conway, John B. (with Dudziak, James; Straube, Emil) Isometrically removable sets for functions in the Hardy space are polar. **88g:32010**
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- Gabidzashvili, M. A. Weighted inequalities for anisotropic potentials. (Russian) **88g:42024**
- Grachev, N. V. (with Maz'ya, V. G.) The Fredholm radius of operators of double layer potential type on piecewise smooth surfaces. (Russian. English summary) **88e:47095**
- Korevaar, J. Green functions, capacities, polynomial approximation numbers and applications in real and complex analysis. **88a:32022**
- Kruglikov, V. I. Capacities of condensers and quasiconformal in the mean mappings in space. (Russian) **88d:30028**
- (with Paikov, V. I.) Capacities and prime ends of an n -dimensional domain. (Russian. English summary) **88j:30043**
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- Straube, Emil. See Conway, John B.; et al., **88g:32010**

31B20 Boundary value and inverse problems

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- Fabrikant, V. I. Mixed problems of potential theory in spherical coordinates. (German and Russian summaries) **88k:31008**
- Genev, V. N. On the polynomial solutions of a class of Neumann boundary value problems in a Hilbert space. (Bulgarian. English and Russian summaries) **88m:31010**
- Jacob, Niels. Sur les fonctions 2 r -harmoniques de N. S. Landkof. (English summary) [On N. S. Landkof's 2 r -harmonic functions] **88b:31014**
- Kapanadze, D. V. Uniqueness theorems for an inverse problem of potential theory. (Russian. English and Georgian summaries) **88b:31015**
- On the determination of the shape of a body from the values of its outer potential. (Russian. English and Georgian summaries) **88e:31010**
- Král, Josef (with Wendland, W. L.) Some examples concerning applicability of the Fredholm-Radon method in potential theory. **88e:31011**
- Medková, Dagmar. Note on contractivity of the Neumann operator. (Russian and Czech summaries) **88i:31010**
- Pagani, Carlo Domenico. Analytic solutions to the inverse problem of the Newtonian potential. **88k:31009**
- Parlov, G. A. Existence and uniqueness of solutions of exterior inverse problems of potential theory. (Russian) **88a:31011**
- Uniqueness of the solution of an abstract inverse problem of potential theory in the class of convex domains. (Russian) **88a:31012**
- Vaskerich, V. L. The convergence of quadratic approximations to the solution of the Dirichlet problem in an ellipsoid. (Russian) **88f:31010**
- Wegmann, R. A free boundary problem for the three-dimensional harmonic vector fields. **88k:31010**
- Wendland, W. L. See Král, Josef, **88e:31011**
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- Bañuelos, R. (with Øksendal, B.) A stochastic approach to quasi-everywhere boundary convergence of harmonic functions. **88e:31013**
- Belikov, M. V. Analytic continuation of expansions of the external potentials of ellipsoidal bodies. **88g:70010**
- Brodskiĭ, M. A. (with Strakhov, V. N.) On the solution of the inverse potential problem for polyhedra with variable polynomial densities. (Russian) **88m:86003**
- Dahlberg, Björn E. J. (with Kenig, C. E.; Verchota, Gregory) The Dirichlet problem for the biharmonic equation in a Lipschitz domain. (French summary) **88a:35070**
- Fabrikant, V. I. Electrostatic problem of several arbitrarily charged unequal coaxial disks. **88i:78014**
- Filar, Maria. Boundary value problems for Poisson equation in the domain E_+^n . **88j:35039**
- Günther, Matthias. Ein einfacher Existenzbeweis für das nichtlineare Molodenskij-problem. [A simple proof of existence for the nonlinear Molodenskii problem] **88g:31015**

- Helms, L. L. Biharmonic functions with prescribed fine normal derivative on the Martin boundary. **88b:31016**
- Jorge, M. C. Local existence of the solution to a nonlinear inverse problem in gravitation. **88g:86006**
- Kenig, C. E. See Dahlberg, Björn E. J.; et al., **88a:35070**
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- Kounchev, O. Duality properties for the extreme values of integrals in distributed moments. **88k:35058**
- Maderna, C. (with Pagani, Carlo Domenico; Salsa, Sandro) The Nash-Moser technique for an inverse problem in potential theory related to geodesy. **88a:58019**
- Maz'ya, V. G. On potential theory for the Lamé system in a domain with a piecewise smooth boundary. (Russian) **88k:35062**
- Netuka, Ivan. Pervasive function spaces and the best harmonic approximation. **88m:46035**
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31B25 Boundary behavior

- Adams, David R. Weighted nonlinear potential theory. **88m:31011**
- Bañuelos, R. (with Øksendal, B.) A stochastic approach to quasi-everywhere boundary convergence of harmonic functions. **88e:31013**
- Dorronsoro, José R. Poisson integrals of regular functions. **88g:31013**
- Ligocka, Ewa. The Holder duality for harmonic functions. **88d:31009**
- Mair, B. A. (with Singman, David) A generalized Fatou theorem. **88f:31011**
- Øksendal, B. See Bañuelos, R., **88e:31013**
- Ruiz, J. R. Calcul probabiliste du noyau de Poisson de la sphère. [Probability theory for the Poisson kernel of the sphere] **88e:31014**
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- Alimov, Sh. A. (with Turmetov, B. Kh.) On a boundary value problem for a biharmonic equation. (Russian) **88k:35055**
- Arai, Hitoshi. Carleson measures on product domains and 2-parameter Brownian martingales. **88e:42038**
- Fryant, Allan (with Shankar, Hari¹) Fourier coefficients and growth of harmonic functions. **88m:31005**
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- (Berenstein, Carlos A.) See Complex analysis, 88g:30003 and 88g:30004
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 (Iliev, Lyubomir G.) See Complex analysis and applications '85, 88h:00002
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- Current problems in complex analysis ★ Всесоюзный семинар молодых ученых "Актуальные вопросы комплексного анализа". (Russian) [All-Union seminar of young scientists on "Current problems in complex analysis"] 88b:30002

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Hodge theory ★ Hodge theory. 88a:14003

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

- Hauser, Herwig Characterizing complex-analytic functions. 88i:32004
 Kishka, Zeinhom μ th root set. 88f:32005
 Leinartas, E. K. A generalization of the Hadamard composition to the case of multiple power series. (Russian) 88f:32006
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 Levenberg, N. (with Molzon, R.) Convergence sets of formal power series. 88j:32004
 Molzon, R. See Levenberg, N., 88j:32004
 Srivastava, J. K. (with Srivastava, Rajiv Kumar) On the space of analytic functions of several complex variables represented by Dirichlet series. (Not in MR)
 Srivastava, Rajiv Kumar See Srivastava, J. K., (Not in MR)
 Zhizhishvili, L. V. Multiple power series in a complex domain. (Russian. English and Georgian summaries) 88e:32006

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- Daoud, S. On the mean values of an entire function represented by Dirichlet series of several complex variables. **88d:32004**
 Ordre d'une fonction de Dirichlet entière de plusieurs variables complexes. [Order of an entire Dirichlet function of several complex variables] **88g:32005**
 Ordres des fonctions entières définies par des séries de Dirichlet de deux variables complexes. II. (English summary) [Orders of entire functions defined by Dirichlet series of two complex variables. II] **88k:32004**
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 A remark on the Möbius transformations. I. (Chinese. English summary) **88e:32007a**
 (with Yan, Zhi Min) A remark on Möbius transformations. III. (Chinese. English summary) **88e:32007c**
 Nikić, Miroslav *R*-functions. **88k:46051**
 Yan, Zhi Min See Gong, Sheng, **88e:32007c**

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

- Barton, Thomas Joseph Biholomorphic equivalence of bounded Reinhardt domains. **88a:32003**
 (with Dineen, Seán; Timoney, Richard M.) Bounded Reinhardt domains in Banach spaces. **88b:32003**
 Bekollé, David The dual of the Bergman space A^1 in the tube over the spherical cone. **88d:32002**
 Beloshapka, V. K. (with Bychkov, S. N.) A property of convex hypersurfaces in C^n . (Russian) **88g:32003**
 Bychkov, S. N. See Beloshapka, V. K., **88g:32003**
 Dineen, Seán See Barton, Thomas Joseph; et al., **88b:32003**
 Liczberski, Piotr Zu quasi-Sternförmigen Funktionen in C^n und im Banach-Raum. (Russian and Polish summaries) [Quasistellar functions in C^n and in a Banach space] **88a:32004**
 Saitoh, Saburo Fourier-Laplace transforms and the Bergman spaces on tube domains. (Serbo-Croatian summary) **88k:32001**
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- Andreev, Valentin V. (with Ramadanov, I. P.) Convex mappings in C^n and subordination. **88k:32010**
 Carmichael, Richard D. Cauchy and Poisson integral representations of generalizations of H^p functions. **88d:32008**
 Dini, Gilberto (with Primicerio, Angela Selvaggi) Proper polynomial holomorphic mappings for a class of Reinhardt domains. (Italian summary) **88e:32039**
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 Esser, P. (with Laubin, P.) Second analytic wave front set and boundary values of holomorphic functions. **88k:32013**
 Jarnicki, M. (with Pflug, P.) Existence domains of holomorphic functions of restricted growth. **88k:32040**
 Korevaar, J. (with Wiegnerinck, J.; Zeinstra, R.) Minimal area of zero sets in tube domains of C^2 . **88c:32019**
 Laubin, P. See Esser, P., **88k:32013**
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 Saitoh, Saburo Generalizations of Paley-Wiener's theorem for entire functions of exponential type. **88f:32013**
 Sergeev, A. G. Complex geometry and integral representations in the future tube. (Russian) **88d:32006**
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 Watanabe, Kiyoshi Note on Cousin-II domains. **88e:32020**
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 Yakovlev, E. I. Construction of a function that is holomorphic in an unbounded Reinhardt domain in C^n with a given condition of junction of type-functions. (Russian) **88f:32014**
 Zavyalov, B. I. See Vladimirov, V. S.; et al., **88c:46047**
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32A10 Holomorphic functions

- Balashova, O. Yu. (with Znamenskii, S. V.) Extension properties of differential operators of infinite order in $H(\mathcal{D})$. (Russian) **88f:32008**
 Bonneau, Pierre (with Cumenge, Anne; Zeriahi, Ahmed) Division dans les espaces de Lipschitz de fonctions holomorphes. [Division of holomorphic functions in Lipschitz spaces] **88f:32009**
 Cumenge, Anne See Bonneau, Pierre; et al., **88f:32009**
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- (with Yan, Zhi Min) A remark on Möbius transformations. III. (Chinese. English summary) **88e:32007c**
 Khudaiberganov, G. A Carathéodory-Fejér problem in a "generalized unit disk". (Russian) **88d:32003**
 Liczberski, Piotr (with Żywień, Lucja) On majorization of Tiemiakov's operators for majorized functions of two complex variables. (Russian and Polish summaries) **88f:32011**
 Ludwig, Klaus Funktionentheoretische Eigenschaften der topologischen Algebra $\mathcal{O}_{H(G)}^D$ von Lie-Reihen. [Function-theoretical properties of the topological algebra $\mathcal{O}_{H(G)}^D$ of Lie series] **88k:32002**
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 McDonald, John N. Holomorphic functions on the polydisc having positive real part. **88b:32004**
 Odvirko-Budko, B. I. Some multidimensional estimates for conditional stability in a problem of analytic continuation from a subdomain of the domain of regularity. (Russian) **88k:32001**
 Popenov, S. V. A weighted space of functions analytic in an unbounded convex domain in C^n . (Russian) **88a:32005**
 Tuichiev, T. T. Singularities of functions with respect to a direction and to a set. (Russian) **88i:32006**
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- Aleksandrov, A. B. The Blaschke condition and roots of bounded holomorphic functions. (Russian) **88g:32012**
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 Dimiev, Stancho G. Systèmes de type Cauchy-Riemann à coefficients non-constants de plusieurs variables. [Cauchy-Riemann systems with nonconstant coefficients of several variables] **88c:30052**
 Gong, Sheng (with Yan, Zhi Min) A remark on the Möbius transformations. III. (Chinese) (Not in MR)
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 Øksendal, B. Removable singularities for H^p and for analytic functions with bounded Dirichlet integral. **88k:32042**
 Shiga, Kiyoshi Inner functions on a strictly pseudoconvex domain. **88i:32013**
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32A15 Entire functions

- Daoud, S. On the mean values of an entire function represented by Dirichlet series of several complex variables. **88d:32004**
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 Ordres des fonctions entières définies par des séries de Dirichlet de deux variables complexes. II. (English summary) [Orders of entire functions defined by Dirichlet series of two complex variables. II] **88k:32004**
 Derzhavets, B. A. The problem of generators in some rings of entire functions of several complex variables. (Russian) **88i:32007**
 Downarowicz, Małgorzata (with Janik, Adam) On the growth of entire functions of n complex variables. **88b:32005**
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 Janik, Adam See Downarowicz, Małgorzata, **88b:32005**
 Juneja, O. P. (with Sinha, Amritasu) On the growth of a class of plurisubharmonic functions. II. **88i:32008**
 Mitreva, Mariya Continuation, with preservation of growth, of functions, holomorphic on the set of zeros of a polynomial, having a given derivative. (Russian) **88a:32006**
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 Nishimura, Yasuichiro Entire functions of several complex variables bounded outside a set of finite volume. **88k:32005**

- Papash, D. E. The growth of entire functions with "plane" zeros. (Russian) **88k:32006**
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 Saakyan, G. R. Systems of convolution equations in spaces of functions that are analytic in convex domains of C^n and have given boundary smoothness of Beurling type. (Russian) **88m:32001**
 Saltoh, Saburo Generalizations of Paley-Wiener's theorem for entire functions of exponential type. **88f:32013**
 Sigurdsson, Ragnar Growth properties of analytic and plurisubharmonic functions of finite order. **88m:32002**
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- Agranovich, P. Z. (with Ronkin, L. I.) On the existence of a plurisubharmonic function with given behavior at infinity. (Russian) **88i:32023**
 Dixon, P. G. (with Esterle, J.) Michael's problem and the Poincaré-Fatou-Bieberbach phenomenon. **88d:46090**
 Elin, M. M. Epimorphism of the convolution operator in convex domains in C^n . (Russian) **88c:32032**
 Esterle, J. See Dixon, P. G., **88d:46090**
 Haslinger, F. (with Smejkal, M.) Representation and duality in weighted Fréchet spaces of entire functions. **88m:46036**
 Kishka, Zelnhom μ th root set. **88f:32005**
 Korobelnik, Yu. F. Inductive and projective topologies. Sufficient sets. (Russian) **88b:46044**
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 Krytov, A. V. On the growth of entire curves of lower order less than one. (Russian) **88b:30045**
 Le Khal Hji Conjugate spaces, weakly sufficient sets and absolutely representing systems of exponentials in several variables. (Russian) **88j:46023**
 Mateo, Mario C. On convolution operators in spaces of entire functions of a given type and order. **88j:46043**
 Meise, Reinhold (with Taylor, B. Alan) Splitting of closed ideals in (DFN)-algebras of entire functions and the property (DN). **88f:32052**
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 Ryan, Raymond A. Holomorphic mappings on I_1 . **88b:46089**
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 Yoshino, Kuni Concrete construction of analytic functionals without unique support. **88i:46056**

32A17 Normal families

- Aladro, Gerardo Applications of the Kobayashi metric to normal functions of several complex variables. **88i:32009**
 Dzhrashelevskii, A. G. Normal functions. (Russian. English and Georgian summaries) **88c:32009**
 Gáljarro Carranza, P. Compact families of holomorphic functions with asymptotic expansion in an open subset of C^n . (Spanish. English summary) **88f:32015**
 Shi, Ji Hual Two results on Bloch functions of several complex variables. (Chinese. English summary) **88b:32002**

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- Yang, Le A general criterion. (See **88c:32005**)

32A20 Meromorphic functions

- Hirai, Etsuko Sur les fonctions partiellement elliptiques. [On partially elliptic functions] **88g:32007**
 Hossain, Moqbul An analogue of the Poisson-Jensen formula for a function of several complex variables. **88m:32003**
 Lattierot, C. H. On convergence of (μ, ν) -sequences of unisolvent rational approximants to meromorphic functions in C^n . **88c:32010**

Items secondarily classified 32A20

- Cerveau, Dominique Cohomologie relative des formes fermées méromorphes. (English summary) [Relative cohomology of meromorphic closed forms] **88a:32006**

32A22 Nevanlinna theory: growth estimates {For geometric theory, see 32H25, 32H30.}

- Dektyarev, I. M. Averaged defects of holomorphic mappings. (Russian) **88j:32006**
 Favorov, S. Yu. Distributions of values of mappings of C^n into a Banach space. (Russian) **88k:32007**
 Molzen, R. Integral geometry of the Monge-Ampère operator. **88b:32006**
 Mori, Seiki Some properties on the growth of the Nevanlinna proximity function and the projective logarithmic capacity. **88c:32011**
 Stanton, Charles S. Counting functions and majorization for Jensen measures. **88c:32002**
 Stoll, Wilhelm The characterization of strictly parabolic spaces. (See **88c:32005**)

Items secondarily classified 32A22

- Favorov, S. Yu. On a theorem of Sibony and Wong. (Russian) **88c:32008**
 Lelong, Pierre Notions de croissance pour les fonctions holomorphes sur un espace vectoriel topologique. [Growth properties of holomorphic functions on topological vector spaces] **88f:46093**
 Okada, Masami Transcendental Bezout estimate by the logarithmic function in C^n . **88c:32036**
 Polyakov, P. L. Zeros of holomorphic functions of finite order in a polydisk. (Russian) **88g:32017**

32A25 Integral representation

- Aizenberg, L. A. Multidimensional analogues of the Carleman formula with integration over boundary sets of maximal dimension. (Russian) **88f:32016**
 (with Kytmanov, A. M.) The scientific results of Sh. A. Dautov. (Russian) **88b:32003**
 Bavrin, I. I. (with Yaremko, O. E.) Integral representations in Temlyakov-Weil domains. (Russian) **88f:32017**
 Chen, Shu Jia The integral representation for polyhedral domains of C^n . (See **88c:32005**)
 On integral representation of holomorphic functions in C^n . (Chinese. English summary) **88f:32018**
 (Dautov, Sh. A.) See Aizenberg, L. A., **88b:32003**
 Gindikin, S. G. (with Khenkin, G. M.) The Cauchy-Fantappiè formula on projective space. (Russian) **88f:32019**
 Gong, Sheng ★ Duo fu bian shu de qi yi jifen. (Chinese) [Singular integrals in several complex variables] (Not in MR)
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 Hatziafratis, Telemachos An explicit extension formula of bounded holomorphic functions from analytic varieties to strictly convex domains. **88a:32007**
 Karapetyan, A. O. Integral representations of some classes of functions analytic in the Cartesian product of angular domains. (Russian) **88g:32008**
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 Kimura, Kyoko Kernels for the $\bar{\partial}$ -Neumann problem on the unit ball in C^2 . **88f:32020**
 Kosberg, S. An analogue of the Schwarz formula in relatively complete n -circular domains. (Russian) **88b:32004**
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 Li, Lan Huan The boundary behavior of integral representations on nondegenerate Weil polyhedra. (Chinese. English summary) **88d:32005**
 Continuity of boundary values of integrals on a nondegenerate Weil polyhedron. (Chinese. English summary) **88f:32021**
 Lieb, Ingo Integral formulae in complex analysis. **88m:32004**
 Marinov, Marin Stefanov The Schwarz formula for holomorphic functions in Reinhardt domains. (Russian) **88f:32022**
 Martinelli, Enzo Some reflections on the integral representation of maximal dimension for functions of several complex variables. (Italian. English summary) **88b:32007**
 Mikhailov, L. G. On some integral representations of functions of several complex variables. (Russian. Tajiki summary) **88g:32009**
 Roos, Guy Fonctions de plusieurs variables complexes et formules de représentation intégrale. [Functions of several complex variables and integral representation formulas] **88m:32005**
 Sergeev, A. G. Complex geometry and integral representations in the future tube. (Russian) **88d:32006**
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 Trèves, François Formules d'homotopie locales pour le système de Cauchy-Riemann tangentiel. [Local homotopy formulas for the tangential Cauchy-Riemann system] **88i:32008**
 Vaillant, J. Ramifications d'intégrales holomorphes. [Ramifications of holomorphic integrals] **88j:32007**
 Yao, Zong Yuan An integral representation on bounded domains in C^n . (Chinese. English summary) **88b:32008**
 Yaremko, O. E. See Bavrin, I. I., **88f:32017**
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 Integral representations of holomorphic functions on Stein manifolds. (Chinese. English summary) **88m:32006**
 Zinov'ev, B. S. Continuation and parametrization of the kernels of Szegő, Schwarz and Poisson. (Russian) **88i:32010**

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- Dautov, Sh. A. See Aizenberg, L. A., **88b:32003**

Items secondarily classified 32A25

- Aizenberg, L. A. An application of multidimensional Carleman formulas. (Russian. Serbo-Croatian summary) **88g:32011**
 Barletta, Elisabetta Extension of positive currents across analytic sets. **88c:32022**
 Boas, Harold P. The Szegő projection: Sobolev estimates in regular domains. **88d:32030**
 Bonneau, Pierre (with Cumenge, Anne; Zeriahi, Ahmed) Division dans les espaces de Lipschitz de fonctions holomorphes. [Division of holomorphic functions in Lipschitz spaces] **88f:32009**
 Bureš, Jarolím Integral formulae in complex Clifford analysis. **88c:30117**
 Cassa, Antonio A ring structure on $\mathcal{H}(C^n)$ and an inverse twistor function formula. **88h:81070**
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 Mateljević, Miodrag Bounded projections and decompositions in spaces of holomorphic functions. (Serbo-Croatian summary) **88m:46033**

- Morimoto, Mitsuo See Wada, Ryoko, 88g:35062
- Perotti, Alessandro Extension of CR-forms and related problems. 88m:32028
- Rycaj, Jerzy C^k -estimates for the Cauchy-Riemann equations on certain weakly pseudoconvex domains. 88k:32051
- Sekerin, A. B. Representation of an infinitely differentiable function by the difference of plurisubharmonic functions. (Russian) 88f:32056
- Sergeev, A. G. Estimates for the Bergman projection in the future tube. (Russian) 88g:32042
- See also Vladimirov, V. S., 88a:32001
- Sommen, F. Martinelli-Bochner type formulae in complex Clifford analysis. (German and Russian summaries) 88j:30097
- Trutnev, V. M. Exponential representation of the solutions of convolution equations in some spaces of entire functions in C^n . (Russian) 88g:35048
- Vladimirov, V. S. (with Sergeev, A. G.) Complex analysis in the future tube. (Russian) 88a:32001
- Wada, Ryoko On the Fourier-Borel transformations of analytic functionals on the complex sphere. 88c:46049
- (with Morimoto, Mitsuo) A uniqueness set for the differential operator $\Delta_z + \lambda^2$. 88g:35062
- Zeriahi, Ahmed See Bonneau, Pierre; et al., 88f:32009

32A27 Local theory of residues [See also 32C30.]

- Dolbeault, Pierre General theory of higher-dimensional residues. (Russian) 88f:32024
- Ronkin, L. I. Jensen theorems for holomorphic almost periodic functions in tube domains. (Russian) 88k:32009
- Talkh, A. K. Application of residues to the calculation of the sum of the squares of the Taylor coefficients of rational functions of two variables. (Russian) 88h:32005
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- Yuzhakov, A. P. On the computing of Grothendieck residues. 88b:32009
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- Bureš, Jarolím Integral formulae in complex Clifford analysis. 88c:30117
- Dodson, M. (with Souček, V.) Leray residues applied to solutions of the Laplace and wave equations. 88d:58116
- Gong, Sheng ★ Duo fu bianhu de qi yi jifen. (Chinese) [Singular integrals in several complex variables] (Not in MR)
- Kytmanov, A. M. On a system of algebraic equations arising in chemical kinetics. (Russian) 88c:80007
- Lipman, Joseph ★ Residues and traces of differential forms via Hochschild homology. 88i:14017
- Passare, Mikael Ideals of holomorphic functions defined by residue currents. (See 88h:00002)
- Souček, V. See Dodson, M., 88d:58116
- Tarkhanov, N. N. The argument principle for elliptic complexes. (Russian) 88d:58104

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

- Andreev, Valentin V. (with Ramadanov, I. P.) Convex mappings in C^n and subordination. 88k:32010
- Duren, Peter (with Rudin, Walter) Distortion in several variables. 88c:32003
- Kakichev, V. A. Application of the Fourier method for solving boundary value problems for functions analytic in circular bidomains. (Russian) 88j:32008
- Ramadanov, I. P. See Andreev, Valentin V., 88k:32010
- Rudin, Walter See Duren, Peter, 88c:32003

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- Bestrou, Frank (with Burbea, Jacob) A generalized Bergman-Schiffer inequality. 88c:32021
- Burbea, Jacob See Bestrou, Frank, 88c:32021
- Bureš, Jarolím (with Souček, V.) Regular spinor valued mappings. 88f:58136
- Dufresnoy, A. (with Gauthier, P. M.; Ow, W. H.) Uniform approximation on closed sets by solutions of elliptic partial differential equations. 88b:35086
- Gauthier, P. M. See Dufresnoy, A.; et al., 88b:35086
- Kakichev, V. A. A boundary value problem of Hilbert problem type for a pair of functions that are analytic in bidomains. (Russian) 88b:30068
- Ow, W. H. See Dufresnoy, A.; et al., 88b:35086
- Shi, Ji Hual Representation of linear functionals on Lipschitz spaces Λ_p of functions holomorphic in the unit ball of C^n . 88k:46027
- Souček, V. Generalized C-R equations on manifolds. 88c:58093
- See also Bureš, Jarolím, 88f:58136
- Tabov, Jordan B. On the existence of complex analytic solutions of certain smooth complex partial differential equations. (See 88j:00018)

32A35 H^p -spaces [See also 32M15, 42B30, 43A85, 46J15.]

- Arai, Hitoshi A note on functions of vanishing mean oscillation on the bidisc. 88c:32013
- Bernadsson, Bo (with Chang, Sun-Yung Alice; Lin, Kai-Ching) Interpolating sequences in the polydisc. 88i:32011
- Bolotov, V. A. On the reconstruction of holomorphic functions from values on some one-dimensional sets. (Russian) 88f:32025
- Brummelhuis, R. G. M. A characterization of holomorphic H^p space on the unit ball in C^n in terms of real H^p space on the sphere. 88a:32008

- Burbea, Jacob Boundary behavior of holomorphic functions in the ball. 88d:32007
- Carmichael, Richard D. Cauchy and Poisson integral representations of generalizations of H^p functions. 88d:32008
- Boundary values of generalizations of H^p functions in tubes. 88f:32026
- Holomorphic extension of generalizations of H^p functions. II. 88c:32004
- Chang, Sun-Yung Alice See Bernadsson, Bo; et al., 88i:32011
- Chee, P. S. On the extension of $(LH)^p$ -functions in polydiscs. (Italian summary) 88c:32005
- Cima, J. A. (with Wogen, W. R.) Unbounded composition operators on $H^2(B_2)$. 88d:32009
- Conway, John B. (with Dudziak, James; Straube, Emil) Isometrically removable sets for functions in the Hardy space are polar. 88g:32010
- Dudziak, James See Conway, John B.; et al., 88g:32010
- Karapetyan, A. O. A characteristic of some classes of functions analytic in the Cartesian product of half planes. (Russian) 88k:32011
- Khudaiberganov, G. The Carleman formula for functions of matrices. (Russian) 88d:32010
- Kim, H. O. On a theorem of Hardy and Littlewood on the polydisc. 88f:32027
- Lin, Kai-Ching H^p -solutions for the corona problem on the polydisc in C^n . (French summary) 88a:32009
- See also Bernadsson, Bo; et al., 88i:32011
- Ma, Lan On zeros of holomorphic functions on a bounded symmetric domain in C^n . (Chinese) 88j:32009
- Marzouq, Maher M. H. Some inclusions relations between Hardy and Bergman spaces for the unit ball. 88b:32010
- Some properties of functions in the space \tilde{A}^p over bounded star-shaped circular domain in C^n ($N > 1$). 88f:32028
- Sibony, Nessim Problème de la couronne pour des domaines pseudoconvexes à bord lisse. [The corona problem for pseudoconvex domains with smooth boundary] 88k:32012
- Straube, Emil See Conway, John B.; et al., 88g:32010
- Wogen, W. R. See Cima, J. A., 88d:32009
- Wojtaszczyk, P. On values of homogeneous polynomials in discrete sets of points. 88c:32014
- Note on "Hardy spaces on the complex ball are isomorphic to Hardy spaces on the disc, $1 \leq p < \infty$ " [Ann. of Math. (2) 118 (1983), no. 1, 21-34; MR 84i:32006]. 88c:32006
- Yan, Zhi Min Linear isometries of H^p spaces over strictly pseudoconvex domains. (Chinese) 88b:32011

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- Ahern, Patrick (with Nagel, Alexander) Strong L^p estimates for maximal functions with respect to singular measures; with applications to exceptional sets. 88m:42037
- Aleksandrov, A. B. Function theory in the ball. (Russian) 88b:32002
- Ball, Joseph A. (with Helton, J. W.) Beurling-Lax representations using classical Lie groups with many applications. IV. $GL(n, \mathbb{R})$, $U^*(2n)$, $SL(n, \mathbb{C})$, and a solvable group. 88i:47016
- (with Foias, C.; Helton, J. W.; Tannenbaum, A.) Nonlinear interpolation theory in H^∞ . 88m:93042
- Bestrou, Frank (with Burbea, Jacob) Reproducing kernels and interpolation of holomorphic functions. 88i:46037
- Beloshapka, V. K. (with Bychkov, S. N.) A property of convex hypersurfaces in C^n . (Russian) 88g:32003
- Bercovici, H. The algebra of multiplication operators on Bergman spaces. 88c:47057
- Burbea, Jacob See Bestrou, Frank, 88i:46037
- Bychkov, S. N. See Beloshapka, V. K., 88g:32003
- Foias, C. See Ball, Joseph A.; et al., 88m:93042
- Graham, I. R. Removable singularities for holomorphic functions which satisfy the area-BMO condition. (See 88c:32005)
- Helton, J. W. See Ball, Joseph A., 88i:47016 and 88m:93042
- Lin, Kai-Ching Interpolation between Hardy spaces on the bidisc. 88f:46057
- McDonald, John N. Examples of RP-measures. 88a:30105
- Micchelli, Charles A. N -width for holomorphic functions on the unit ball in n -space. 88m:41018
- Nagel, Alexander See Ahern, Patrick, 88m:42037
- Noell, Alan (with Ramey, Wade; Ullrich, David) Complex-tangential sets and boundary values in submanifolds of the boundary. 88i:32012
- Øksendal, B. Removable singularities for H^p and for analytic functions with bounded Dirichlet integral. 88k:32042
- Ramey, Wade See Noell, Alan; et al., 88i:32012
- Sadikov, N. M. Operators of multiplication by a function in a Hardy space on a polydisk that are isometries. (Russian) 88g:47062
- Invariant subspaces in the Hardy space on a bidisk. (Russian) 88g:47063
- Saitoh, Saburo Generalizations of Paley-Wiener's theorem for entire functions of exponential type. 88f:32013
- Shi, Ji Hual Two results on Bloch functions of several complex variables. (Chinese. English summary) 88h:32002
- Stanton, Charles S. Counting functions and majorization for Jensen measures. 88c:32002
- Tannenbaum, A. See Ball, Joseph A.; et al., 88m:93042
- Thomas, Pascal J. Interpolating sequences of complex hyperplanes in the unit ball of C^n . (French summary) 88c:32030
- Ullrich, David See Noell, Alan; et al., 88i:32012
- Upmeyer, Harald Index theory for Toeplitz operators on bounded symmetric domains. (See 88i:32003)
- Wolniewicz, Tomasz M. Nonfactorization theorems for Hardy and Bergman spaces on bounded symmetric domains. 88k:32079

32A40 Boundary behavior

- Aizenberg, L. A. An application of multidimensional Carleman formulas. (Russian. Serbo-Croatian summary) 88g:32011

- Aleksandrov, A. B. The Blaschke condition and roots of bounded holomorphic functions. (Russian) **88g:32012**
- Boletov, V. A. Reconstruction of holomorphic functions of several variables from values on certain one-dimensional curves. (Russian) **88f:32029**
- Dzhvarshvili, A. G. Boundary properties of a differentiated multiple integral of Cauchy type. (Russian. English and Georgian summaries) **88m:32007**
- Esser, P. (with Laubin, P.) Second analytic wave front set and boundary values of holomorphic functions. **88k:32013**
- Fichera, Gaetano Boundary values of analytic functions of several complex variables. **88f:32030**
- Globevnik, Josip (with Stout, Edgar Lee) The ends of varieties. **88m:32008**
(with Stout, Edgar Lee) The ends of discs. (French summary) **88c:32007**
- Hakim, Monique (with Sibony, Nessim) Boundary properties of holomorphic functions in the ball of \mathbb{C}^n . **88c:32008**
- Jimbo, Toshiya Interpolation manifolds for intersections of strictly pseudoconvex domains. **88m:32009**
- Kar'yanov, E. Yu. A boundary value problem of linear conjugacy in a class of functions in the space C^2 that are quasi-analytic in the sense of Temlyakov. (Russian) **88k:32014**
- Khramov, Yu. V. Boundary behavior of the linear part of a holomorphic mapping. (Russian) **88d:32011**
- Laubin, P. See Esser, P., **88k:32013**
- Ligocka, Ewa On the orthogonal projections onto spaces of pluriharmonic functions and duality. **88c:32009**
- Lin, Liang Yu Limit values of Cauchy type integrals in several complex variables at angular points. (Chinese. English summary) **88d:32012**
- Noell, Alan (with Ramey, Wade; Ullrich, David) Complex-tangential sets and boundary values in submanifolds of the boundary. **88i:32012**
- Piver, N. N. On the uniqueness of solutions for inverse boundary value problems for domains biholomorphically equivalent to the bidisk. (Russian) **88m:32010**
- Ramey, Wade See Noell, Alan; et al., **88i:32012**
- Rosay, Jean-Pierre Some applications of Cauchy-Fantappiè forms to (local) problems on $\bar{\partial}$. **88d:32013**
- Shiga, Kiyoshi Inner functions on a strictly pseudoconvex domain. **88i:32013**
- Sibony, Nessim See Hakim, Monique, **88c:32008**
- Stout, Edgar Lee See Globevnik, Josip, **88c:32007** and **88m:32008**
- Ullrich, David Tauberian theorems for pluriharmonic functions which are BMO or Bloch. **88c:32015**
See also Noell, Alan; et al., **88i:32012**
- Vladimirov, V. S. (with Zharinov, V. V.) Analytic methods in mathematical physics. (Russian) **88b:32012**
- Zharinov, V. V. See Vladimirov, V. S., **88b:32012**
- Znamenskaya, L. N. A generalization of Riesz theorems and the reconstruction of holomorphic functions of several complex variables from their values on a part of the Shilov boundary. (Russian) (See **88d:32001**)

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- Ahern, Patrick (with Rudin, Walter) Bloch functions, BMO, and boundary zeros. **88d:42036**
- Aleksandrov, A. B. Function theory in the ball. (Russian) **88k:32002**
- Barletta, Elisabetta Extension of positive currents across analytic sets. **88c:32022**
- Beloshapka, V. K. (with Bychkov, S. N.) A property of convex hypersurfaces in \mathbb{C}^n . (Russian) **88g:32003**
- Burbea, Jacob Boundary behavior of holomorphic functions in the ball. **88d:32007**
- Bychkov, S. N. See Beloshapka, V. K., **88g:32003**
- Carmichael, Richard D. Boundary values of ultra-distributions of exponential type. **88k:46046**
Boundary values of generalizations of H^p functions in tubes. **88f:32026**
- Chammat, Jacques (with Chollet, Anne-Marie) Propriétés de division par des fonctions de $A^\infty(D)$. (English summary) [Properties of division by functions of $A^\infty(D)$] **88b:32039**
- Chollet, Anne-Marie See Chammat, Jacques, **88b:32039**
- Forness, John E. (with Law, Erik) Proper holomorphic mappings. **88b:32056**
- Globevnik, Josip A family of lines for testing holomorphy in the ball of \mathbb{C}^2 . **88m:32026**
- Jimbo, Toshiya (with Sakai, Akira) Interpolation manifolds for products of strictly pseudoconvex domains. **88g:32032**
- Kakichev, V. A. Application of the Fourier method for solving boundary value problems for functions analytic in circular bidomains. (Russian) **88j:32008**
- Li, Ming Zhong Generalized Riemann-Hilbert problem for a system of first-order quasilinear elliptic equations of several complex variables. **88d:35073**
- Law, Erik See Forness, John E., **88b:32056**
- Øksendal, B. Removable singularities for H^p and for analytic functions with bounded Dirichlet integral. **88k:32042**
- Pons, Frédéric L'espace des germes de H. Cartan et son application au problème des bords. (English summary) [H. Cartan's space of germs and its application to the problem of boundaries] **88c:32016**
- Rea, Claudio Holomorphic extendability past boundary points and flat functions in \mathbb{C}^2 and \mathbb{C}^n . **88d:32026**
- Rosay, Jean-Pierre Une remarque à propos de fonctions holomorphes et du front d'onde \mathbb{C}^∞ . [A remark on holomorphic functions and the \mathbb{C}^∞ wave front] **88k:46047**
- Rudin, Walter See Ahern, Patrick, **88d:42036**
- Sakai, Akira See Jimbo, Toshiya, **88g:32032**
- Stanton, Charles S. Counting functions and majorization for Jensen measures. **88c:32002**
- Struppa, Daniele (with Turrini, Cristina) Hyperfunctions and boundary values of holomorphic functions. **88b:32014**
- Turrini, Cristina See Struppa, Daniele, **88b:32014**
- Zav'yalov, B. I. On the asymptotic properties of functions that are holomorphic in tubular cones. (Russian) **88f:32007**

32A45 Hyperfunctions [See also 46F15.]

- Ito, Yoshifumi Theory of (vector valued) Sato hyperfunctions. Their realization as

- boundary values of (vector valued) holomorphic functions. **88b:32013**
- Meril, Alex Problèmes d'interpolation dans des espaces d'ultradistributions de type Roumieu. [Interpolation problems in ultradistribution spaces of Roumieu type] **88d:32014**
- Struppa, Daniele (with Turrini, Cristina) Hyperfunctions and boundary values of holomorphic functions. **88b:32014**
- Turrini, Cristina See Struppa, Daniele, **88b:32014**
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- Balashova, O. Yu. (with Znamenskii, S. V.) Extension properties of differential operators of infinite order in $H(\mathcal{D})$. (Russian) **88f:32008**
- Bros, J. Transformations de Laplace sur des sous-variétés de \mathbb{C}^n et représentations d'ondes entrantes et sortantes. [Laplace transforms on submanifolds in \mathbb{C}^n and representations of entry and exit waves] **88m:58183**
- Carmichael, Richard D. Boundary values of ultra-distributions of exponential type. **88k:46046**
- Drozhzhinov, Yu. N. See Vladimirov, V. S.; et al., **88c:46047** and **88d:46075**
- Muro, Masakazu The dimension of the space of relatively invariant hyperfunctions on regular prehomogeneous vector spaces. **88m:46053**
- Nishimura, Hirokazu Some connections between Heyting valued set theory and algebraic geometry—prolegomena to intuitionistic algebraic geometry. **88k:03125**
- Noro, Masayuki (with Tose, Nobuyuki) The theory of Radon transformations and 2-microlocalization. I. Vanishing theorem for the sheaf of microfunctions with holomorphic parameters. **88m:58177**
- Schlichtkrull, Henrik Introduction to hyperfunctions. (Danish. English summary) **88m:46054**
- Tose, Nobuyuki See Noro, Masayuki, **88m:58177**
- Vladimirov, V. S. (with Drozhzhinov, Yu. N.; Zav'yalov, B. I.) Tauberian theorems for distributions. **88d:46075**
(with Drozhzhinov, Yu. N.; Zav'yalov, B. I.) Tauberian theorems for generalized functions and their applications. (Russian) **88c:46047**
- Zav'yalov, B. I. See Vladimirov, V. S.; et al., **88c:46047** and **88d:46075**
- Znamenskii, S. V. See Balashova, O. Yu., **88f:32008**

32A99 None of the above, but in this section

- Aomoto, K. Gauss-Manin connection of integral of difference products. **88f:32031**
- Aytuna, Aydin On the linear topological structure of spaces of analytic functions. (Turkish summary) **88a:32010**
- Azimov, K. A property of extremal functions on analytic curves. (Russian) **88d:32015**
- Saltygov, M. D. The class $B(\alpha, \beta, \gamma)$ of holomorphic functions and properties of this class. (Russian) **88f:32032**

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- Avanissian, Vazgain Sur les fonctions p -harmoniques de type exponentiel. (English summary) [p -harmonic functions of exponential type] **88b:31006**
- Colombeau, J.-F. (with Paques, Otilia Wiermann) On the Paley-Wiener-Schwartz isomorphism in Hilbert spaces. **88b:46085**
- Dubinskii, Yu. A. Algebra of pseudodifferential operators with complex arguments, and its applications. (Russian) **88b:35118**
- Morayne, Michal Measure preserving analytic diffeomorphisms of countable dense sets in \mathbb{C}^n and \mathbb{R}^n . **88f:28015**
- Paques, Otilia Wiermann See Colombeau, J.-F., **88b:46085**
- Pinchuk, S. I. (with Pushnikov, A. Yu.) CR-mappings of manifolds of codimension 2. (Russian) **88m:32040**
- Pushnikov, A. Yu. See Pinchuk, S. I., **88m:32040**

32Bxx Local analytic geometry [See also 13-XX and 14-XX.]

32B05 Analytic algebra and generalizations, preparation theorems

- Bierstone, E. (with Milman, P. D.) Relations among analytic functions. I. (French summary) **88g:32013a**
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- Cucker, Felipe A Nullstellensatz for Nash functions. (Italian. English summary) **88m:32011**
Sur la structure réelle des idéaux de $\mathbb{C}[X_1, \dots, X_n]$. (English summary) [On the real structure of the ideals of $\mathbb{C}[X_1, \dots, X_n]$] **88b:32015**
- Milman, P. D. See Bierstone, E., **88g:32013a** and **88g:32013b**
- Müller, Gerd Actions of complex Lie groups on analytic \mathbb{C} -algebras. **88f:32033**
- Pritchard, F. Leon Polynomial mappings with Jacobian determinant of bounded degree. **88m:32012**
- Raimondo, M. On the ring of complex Nash functions. **88k:32015**
- Sessa, Carmen Ideals of functions in \mathbb{C}^n . (Spanish) **88c:32010**

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- Bonneau, Pierre (with Cumenge, Anne; Zeriahi, Ahmed) Division dans les espaces de Lipschitz de fonctions holomorphes. [Division of holomorphic functions in Lipschitz spaces] **88f:32009**
- Constantinescu, Adrian Some analytic and topological interpretations of the finite generation of complex subalgebras. I. **88k:13015a**
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- Cumenge, Anne *See* Bonneau, Pierre; et al., 88f:32009
 Hauser, Herwig Characterizing complex-analytic functions. 88i:32004
 Mehring, Günther H. Der Hauptsatz über Iteration im Ring der formalen Potenzreihen. [The principal theorem on iteration in the ring of formal power series] 88h:13014
 Mond, David Some remarks on the geometry and classification of germs of maps from surfaces to 3-space. 88j:32014
 Płoski, Arkadiusz Algebraic dependence and polynomial automorphisms. (Russian summary) 88e:14015
 Suwa, Tatsuo Determinacy of analytic foliation germs. 88f:58011
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32B10 Germs of analytic sets

- Buchner, Michael A. (with Kucharz, Wojciech) Almost analytic local algebraicity of analytic sets and functions. 88k:32016
 Kucharz, Wojciech *See* Buchner, Michael A., 88k:32016
 Pons, Frédéric L'espace des germes de H. Cartan et son application au problème des bords. (English summary) [H. Cartan's space of germs and its application to the problem of boundaries] 88e:32016

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- Aurich, Volker Local analytic geometry in Banach spaces. 88h:32008
 Cucker, Felipe Sur la structure réelle des idéaux de $\mathbb{C}[X_1, \dots, X_n]$. (English summary) [On the real structure of the ideals of $\mathbb{C}[X_1, \dots, X_n]$] 88b:32015
 Szafraniec, Zbigniew On the Euler characteristic of analytic and algebraic sets. 88a:32012

32B15 Analytic subsets of affine space

- Hemaut, Alain Cycle exceptionnel de l'éclatement d'un idéal définissant l'origine de \mathbb{C}^n et applications. (English summary) [Exceptional cycle of the blowing up of an ideal defining the origin of \mathbb{C}^n , and applications] 88k:32017
 Pinchuk, S. I. (with Sukhov, A. B.) Continuation of analytic sets across real manifolds. (Russian) 88f:32034
 Sukhov, A. B. *See* Pinchuk, S. I., 88f:32034
 Villarreal, Yuli Equivalence of curves in a Hermitian quadric. (Spanish. English summary) 88k:32018

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- Alexander, H. The polynomial hull of a set of finite linear measure in \mathbb{C}^n . 88b:32038
 Bochnak, J. (with Kucharz, Wojciech) Realization of homotopy classes by algebraic mappings. 88j:14016
 Kucharz, Wojciech *See* Bochnak, J., 88j:14016

32B20 Semi-analytic sets and subanalytic sets

- Denkowska, Zofia (with Stasica, Jacek) Sur la continuité de la section d'un ensemble sous-analytique. [Continuity of the section of a subanalytic set] 88b:32017
 Une présentation de la théorie des sous-analytiques sans désingularisation. [A presentation of the theory of subanalytic sets without desingularization] 88b:32016
 Fortuna, E. (with Galbiati, Margherita) Semi-analyticité et sous-analyticité. (English summary) [Semianalyticity and subanalyticity] 88a:32011
 Galbiati, Margherita Quelques problèmes de géométrie analytique réelle. [Some problems of real analytic geometry] 88d:32016
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 Łojasiewicz, Stanisław, Jr. Sur les cônes semi-analytiques. [On semianalytic cones] 88c:32011
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 Pawlucki, Wiesław Sur les points de Nash des ensembles sous-analytiques. (English and Russian summaries) [On the Nash points of subanalytic sets] 88g:32014
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 Stasica, Jacek *See* Denkowska, Zofia, 88b:32017
 Szafraniec, Zbigniew On the Euler characteristic of analytic and algebraic sets. 88a:32012

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- Bochnak, J. (with Kucharz, Wojciech) Algebraic approximation of mappings into spheres. 88h:58018
 du Boucheron-Mariaux, Bernadette Chânes sous-analytiques maximale complexes. (English summary) [Maximally complex subanalytic chains] 88f:32040
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 Fortuna, E. (with Łojasiewicz, Stanisław; Raimondo, M.) Algèbre de germes analytiques. [Algebraicity of analytic germs] 88d:32019
 Kucharz, Wojciech *See* Bochnak, J., 88h:58018
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 Matsumoto, Takao (with Shiota, Masahiro) Proper subanalytic transformation groups and unique triangulation of the orbit spaces. 88f:57077
 Orro, Patrice (with Trotman, David) On the regular stratifications and conormal structure of subanalytic sets. 88d:32023
 Pawlucki, Wiesław (with Pleśniak, Wiesław) Markov's inequality and C^∞ -functions on subanalytic sets. (See 88e:00007)
 (with Pleśniak, Wiesław) Prolongement de fonctions \mathcal{C}^∞ . (English summary) [Extension of \mathcal{C}^∞ functions] 88b:26025
 Pleśniak, Wiesław *See* Pawlucki, Wiesław, 88b:26025 and (88e:00007)
 Poly, J.-B. Problème des bords: maximale complexité forte. [The boundary problem: strong maximal complexity] 88f:32041
 Raimondo, M. *See* Fortuna, E.; et al., 88d:32019

- Shiota, Masahiro *See* Matsumoto, Takao, 88f:57077
 Trotman, David *See* Orro, Patrice, 88d:32023
 Yomdin, Y. Metric properties of semialgebraic sets and mappings and their applications in smooth analysis. 88k:58011

32B30 Local singularities [See also 14B05, 32C40, 32C42.]

- Abhyankar, Shreeram S. Characteristic pairs. (See 88a:32002)
 Aleksandrov, A. G. The Milnor numbers of nonisolated Saito singularities. (Russian) 88e:32017
 Arocha Pérez, Jorge Luis *See* Estrada Sariabous, J.; et al., 88k:32023
 Barlet, D. Le calcul de la forme hermitienne canonique pour $X^a + Y^b + Z^c = 0$. [The calculation of the canonical Hermitian form for $X^a + Y^b + Z^c = 0$] 88f:32035
 Benson, Max (with Yau, Stephen S.-T.) Lie algebras and their representations arising from isolated singularities: computer method in calculating the Lie algebras and their cohomology. 88k:32020
 Cassou-Nogues, Pierrette Racines de polyômes de Bernstein. (English summary) [Roots of Bernstein polynomials] 88c:32012
 Dimca, Alexandru (with Tibăr, Mihai) Pull-backs of isolated singularities under analytic coverings. 88k:32021
 Ehlers, F. (with Neumann, Walter D.; Scherk, J.) Links of surface singularities and CR space forms. 88k:32022
 Estrada Sariabous, J. (with Arocha Pérez, Jorge Luis; Fuentes Rodríguez, Alberto) Classification of nondegenerate quasihomogeneous functions with inner modality 6. 88k:32023
 Fiedler, Thomas The topology of complex curves immersed into the unit ball in \mathbb{C}^2 . 88k:32024
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- Belkiani, A. Le complexe cotangent analytique. (English summary) [The analytic cotangent complex] 88f:32062
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32G20 Period matrices [See also 14H05.]

- Cattani, Eduardo (with Kaplan, Aroldo G.; Schmid, Wilfried) Degeneration of Hodge structures. 88a:32029
 (with Kaplan, Aroldo G.; Schmid, Wilfried) Variations of polarized Hodge structure: asymptotics and monodromy. 88h:32020
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- Danilov, V. I. (with Khovanskii, A. G.) Newton polyhedra and an algorithm for calculating Hodge-Deligne numbers. (Russian) 88i:32032
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- Kaplan, Aroldo G. See Cattani, Eduardo; et al., 88a:32029; 88h:32019 and 88h:32020
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32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [See also 58Bxx.]

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32Lxx Holomorphic fiber spaces [See also 55Rxx.]

32L05 Holomorphic fiber bundles and generalizations

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32L99 None of the above, but in this section

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- Bialynicki-Birula, Andrzej (with Sommese, Andrew John) A conjecture about compact quotients by tori. 88j:32042
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33-XX Special functions {33-XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42C05. Expansions in orthogonal functions are treated in 42C10, 42C15.}

33-00 Handbooks, dictionaries, and other reference works

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- Apelblat, Alexander \ast Table of definite and infinite integrals. 88i:00013
- Brychkov, Yu. A. See Prudnikov, A. P.; et al., 88f:00012; 88f:00013 and 88f:00014
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- Andrews, George E. q -series: their development and application in analysis, number theory, combinatorics, physics, and computer algebra. 88b:11063
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- On certain operational generating and recurrence relations. 88d:33011
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- Bender, Carl M. (with Mead, Lawrence R.; Pinsky, Stephen S.) Continuous Hahn polynomials and the Heisenberg algebra. 88m:33027
- Beniwal, P. S. (with Saran, S.) Some classes of generating functions for sets of functions of two variables. (Not in MR)
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- Aksenov, E. P. Tisserand's polynomials and inclination functions in the theory of artificial earth satellites. **88c:70028**
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- Meijer, J. W. (with Baken, N. H. G.) The exponential integral distribution. (Not in MR)
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33A75 Special functions and Lie groups [See also 22Exx, 43A80.]

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- Agarwal, Ashok Kumar (with Kalnins, E. G.; Miller, Willard, Jr.) Canonical equations and symmetry techniques for q -series. **88i:33003**
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- Faraud, Jacques (with Harzallah, Khélifa) ★ Deux cours d'analyse harmonique. (French) [Two courses on harmonic analysis] **88i:22022**
- Feinsilver, Philip Automorphisms of Bernoulli systems. (Spanish summary) **88g:33010**
- Ghosh, Bandana (with Chatterjee, S. K.) Some generating functions of modified Laguerre polynomials. **88b:33023**
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- (with Rozenblyum, L. V.) Orthogonal polynomials of several variables, which are connected with representations of groups of Euclidean motions. (Russian) **88c:33017**
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- (with Rozenblyum, L. V.) Representations of the rotation groups of Euclidean spaces, and special functions of matrix indices. (Russian) **88m:22051**
- (with Rozenblyum, L. V.) Representations of the group $SO(4)$ and the dual Hahn polynomials. (Russian. English summary) **88i:22030**
- Rozenblyum, L. V. See Rozenblyum, A. V., **88c:33017**; **88i:22030**; **88m:22051** and **(88i:81005)**
- Shapiro, R. L. (with Vilenkin, N. Ya.) Lorentz group and some integral representations for Bessel functions. (See **88i:81005**)
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- Zhedanov, A. S. See Granovskii, Ya. I., **88d:22020**

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- School: Harmonic analysis See Faraud, Jacques, **88i:22022**
- Tunis See Faraud, Jacques, **88i:22022**

33A99 Miscellaneous topics

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- Chatterjee, S. K. See Barik, N., 88a:33031
- Dzadyk, V. K. On the theory of special functions and their approximations. 88c:33019
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- Chibrikova, L. I. Application of piecewise holomorphic functions in the construction of integral representations of certain special functions. (Russian) 88b:30064
- Stanton, D. Sign variations of the Macdonald identities. 88c:17020
- Ueno, Kazuo Umbral calculus and special functions. 88m:05012

34-XX Ordinary differential equations

34-01 Elementary exposition; textbooks

- Arndt, Herbert See Werner, Helmut, 88b:34002
- (Busch, Michael) See Kurzweil, Jaroslav, 88m:34001
- Godunov, S. K. ★ Матричная экспонента, матрица Грина и условия Лопатинского. (Russian) [The matrix exponential, the Green matrix and Lopatinski conditions] 88a:34001
- Grasman, Johan ★ Asymptotic methods for relaxation oscillations and applications. 88i:34001
- Kolmanovskii, V. B. (with Nosov, V. R.) ★ Stability of functional-differential equations. 88c:34001
- Kurzweil, Jaroslav ★ Ordinary differential equations. 88m:34001
- Locker, John ★ Functional analysis and two-point differential operators. 88d:34001
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- Pelczar, Andrzej (with Szarski, Jacek) ★ Wstęp do teorii równań różniczkowych. Część I. (Polish) [Introduction to the theory of differential equations. Part I] 88k:34001
- Szarski, Jacek See Pelczar, Andrzej, 88k:34001
- Walter, Wolfgang ★ Gewöhnliche Differentialgleichungen. (German) [Ordinary differential equations] 88b:34001
- Werner, Helmut (with Arndt, Herbert) ★ Gewöhnliche Differentialgleichungen. (German) [Ordinary differential equations] 88b:34002

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- Krall, A. M. ★ Applied analysis. 88b:00006
- Reddy, B. D. ★ Functional analysis and boundary value problems: an introductory treatment. 88g:46001

34-02 Advanced exposition (research surveys, monographs, etc.)

- Benedek, A. I. (with Panzone, R.) ★ Problemas de contorno. I. (Spanish) [Boundary control problems. I] 88c:34002
- Bogaevskii, V. N. (with Povzner, A. Ya.) ★ Алгебраические методы в нелинейной теории возмущения. (Russian) [Algebraic methods in nonlinear perturbation theory] 88j:34001
- Chen, Peng Nian See He, Jian Xun, 88c:34001
- Dumshlak, Yu. I. ★ Метод сравнения "по Штурму" в исследовании поведения решений дифференциально-операторных уравнений. (Russian) [A comparison method "in the sense of Sturm" in the investigation of the behavior of solutions of operator-differential equations] 88b:34003
- (Dravecký, Josef) See Greguš, M., 88a:34002
- (Farkas, M.) See Proceedings: Conference on Nonlinear Oscillations, 88k:34002
- Greguš, M. ★ Third order linear differential equations. 88a:34002
- He, Jian Xun (with Chen, Peng Nian) Some aspects of the theory and applications of discontinuous differential equations. (Chinese. English summary) 88c:34001
- Humi, Mayer (with Miller, William Brunner) ★ Second course in ordinary differential equations for scientists and engineers. 88i:34002
- Huseyin, Kençay ★ Multiple parameter stability theory and its applications. 88c:34002
- (Kertész, V.) See Proceedings: Conference on Nonlinear Oscillations, 88k:34002
- Lewis, F. L. A survey of linear singular systems. 88f:34001
- Ligeza, Jan ★ Weak solutions of ordinary differential equations. 88b:34004
- Mennicken, Reinhard (with Möller, Manfred) ★ Boundary eigenvalue problems. 88c:34003
- Miller, William Brunner See Humi, Mayer, 88i:34002
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- (Stépán, G.) See Proceedings: Conference on Nonlinear Oscillations, 88k:34002
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- Zhang, Bing Gen A survey of the oscillation of solutions to first order differential equations with deviating arguments. 88c:34004

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- Budapest ★ Proceedings of the Eleventh International Conference on Nonlinear Oscillations. 88k:34002
- Conference: Nonlinear Oscillations ★ Proceedings of the Eleventh International Conference on Nonlinear Oscillations. 88k:34002

Proceedings:

- Conference on Nonlinear Oscillations ★ Proceedings of the Eleventh International Conference on Nonlinear Oscillations. 88k:34002

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- Arnol'd, V. I. ★ Chapitres supplémentaires de la théorie des équations différentielles ordinaires. (French) [Supplementary chapters to the theory of ordinary differential equations] 88c:58027
- ★ Geometrische Methoden in der Theorie der gewöhnlichen Differentialgleichungen. (German) [Geometrical methods in the theory of ordinary differential equations] 88k:58031
- ★ Geometrische Methoden in der Theorie der gewöhnlichen Differentialgleichungen. (German) [Geometrical methods in the theory of ordinary differential equations] 88k:58032
- Byrne, George D. (with Hindmarsh, Alan C.) Stiff ODE solvers: a review of current and coming attractions. 88c:65082
- (Embarek, Djilali) See Arnol'd, V. I., 88c:58027
- (Giessmann, Ernst Günter) See Arnol'd, V. I., 88k:58031 and 88k:58032
- (Graw, Bernd) See Arnol'd, V. I., 88k:58031 and 88k:58032
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- Khapaev, Mikhail Mikhailovich ★ Усреднение в теории устойчивости. (Russian) [Averaging in stability theory] 88a:34063
- Khazin, L. G. (with Shnol', E. E.) ★ Устойчивость критических положений равновесия. (Russian) [Stability of critical equilibrium states] 88d:34067
- Ladde, G. S. (with Lakshmikantham, V.; Vatsala, A. S.) ★ Monotone iterative techniques for nonlinear differential equations. 88g:35006
- Lakshmikantham, V. See Ladde, G. S.; et al., 88g:35006
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- (Theel, Horst) See Arnol'd, V. I., 88k:58031 and 88k:58032
- Vatsala, A. S. See Ladde, G. S.; et al., 88g:35006

34-03 Historical (must also be assigned at least one classification number from Section 01)

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- (d'Alembert, Jean le Rond) See Konovalova, L. V., 88m:01040
- Anand, Kailash Kumari On an important method for solutions of linear and nonlinear differential equations. (See 88j:00018)
- (Bernoulli, Nicolas II) See Grunnetti, Lucia, 88f:01013
- Grunnetti, Lucia The Riccati equation then and now. (Italian. English summary) 88a:01014
- The Riccati equation: unpublished correspondence of Jacopo Riccati and Nicolas II Bernoulli. (Italian) 88f:01013
- (Hargreave, Ch.) See Petrova, S. S., 88d:01024
- Konovalova, L. V. d'Alembert and the general theory of linear ordinary differential equations. (Russian) 88m:01040
- Kurzweil, Jaroslav Differential equations in Czechoslovakia in the years 1945-1985. (Czech) 88g:01067
- (Lie, Sophus) See Surkov, Yu. P., 88h:01030
- Luchka, T. F. The genesis and development of the collocation method. (Russian) 88i:01070
- Manolov, S. The G. Bradistilov scientific seminar "Ordinary differential equations and applications". (Russian) (See 88j:00018)
- (Oleinik, O. A.) See Petrovskii, I. G., 88m:01108
- Petrova, S. S. The work of C. Hargreave on the symbolic calculus. (Russian. English summary) 88d:01024
- Petrovskii, I. G. ★ Избранные труды. (Russian) [Selected works] 88m:01108
- (Poincaré, Henri) See Surkov, Yu. P., 88h:01030
- (Riccati, Jacopo) See Grunnetti, Lucia, 88f:01013
- Shiraiwa, Kenichi On the development of dynamical systems. (Japanese) 88j:01004
- Surkov, Yu. P. Sophus Lie and the integral invariants of Poincaré. (Russian) 88h:01030
- Virgin, V. P. Between mechanics and mathematics: analytical mechanics as a factor in the development of mathematics (the nineteenth century). (Russian) 88i:01058

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- Petrovskii, I. G. See Petrovskii, I. G., 88m:01108

Correspondence:

- Riccati, Jacopo—Bernoulli, Nicolas, II See Grunnetti, Lucia, 88f:01013

34-04 Explicit machine computation and programs (not the theory of computation or programming)

Items secondarily classified 34-04

- Abdullin, R. Z. (with Karatueva, N. A.; Malikov, A. I.) Development of the functional capabilities of a program package for numerical construction of vector Lyapunov functions. (Russian) 88c:34097
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- Fodchuk, V. I. (with Klevchuk, I. I.) Splitting of linear functional-differential equations. (Russian. English summary) **88j:34136**
- See also Mitropol'skii, Yu. A.; et al., **88m:34063**
- Gautheron, Véronique See Artigue, Michèle; et al., **88k:58105**
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- Leonov, G. A. (with Reitmann, Volker) Das Rössler-System ist nicht dissipativ im Sinne von Levinson. [The Rössler system is not dissipative in the sense of Levinson] **88a:34064**
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- Martynuk, A. A. Extension of state space of dynamical systems and the problem of stability. **88c:34080**

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- Unauthored items
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- Athanassov, Zhivko Sur le comportement asymptotique de systèmes différentiels non linéaires. (English summary) [On the asymptotic behavior of nonlinear differential systems] **88a:34065**
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- Ilchmann, A. (with Owens, D. H.; Prätzel-Wolters, D.) Sufficient conditions for stability of linear time-varying systems. **88j:34099**
- Izobov, N. A. Stability with respect to linear approximation. Special cases. (Russian) **88d:34059**
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- Wada, Teruyo (with Yamamoto, Minoru) On the globally asymptotic stability of solutions of ordinary differential equations. **88g:34079**
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- Hatvani, L. On location of positive limit sets of solutions of nonautonomous systems. **88c:34049**
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- Kiventidis, T. Une contribution à la stabilité des équations différentielles ordinaires dans les espaces localement convexes. [A contribution to the stability of ordinary differential equations in locally convex spaces] **88c:34112**
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- Rossetto, B. Détermination des exposants de Floquet-Liapounov de l'équation de Hill d'ordre n , applications. (English summary) [Determination of the Floquet-Liapounov exponents of the n th-order Hill equation; applications] **88j:34054**
- Sasagawa, T. On the stability of stochastic functional differential systems. **88k:34078**
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- Alidakos, Nicholas D. (with Shaing, K. C.) On the singular limit for a class of problems modelling phase transitions. 88i:34096
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- Battelli, Flaviano (with Lazzari, Claudio) Dichotomies and stability in singularly perturbed systems of ODE. 88j:34106
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- 34K99 None of the above, but in this section**
- Items secondarily classified 34K99**
- Ito, Kazufumi (with Teglas, Russell) Legendre-tau approximations for functional-differential equations. 88a:65125
- Teglas, Russell See Ito, Kazufumi, 88a:65125
- 35-XX Partial differential equations**
- 35-00 Handbooks, dictionaries, and other reference works**
- Items secondarily classified 35-00**
- (Butkovskii, A. G.) See Martynenko, N. A., 88j:44001
- Martynenko, N. A. (with Pustyl'nikov, L. M.) ★ Конечные интегральные преобразования и их применение к исследованию систем с распределенными параметрами. (Russian) [Finite integral transformations and their application to the study of systems with distributed parameters] 88j:44001
- Pustyl'nikov, L. M. See Martynenko, N. A., 88j:44001

35-01 Elementary exposition; textbooks

- Bénilan, Philippe. An introduction to partial differential equations. 88b:35001
(Boas, R. P.) See Dezin, A. A., 88b:35001
- Debnath, Lokenath. See Myint-U, Tyn, 88d:35002
- Dezin, A. A. * Partial differential equations. 88b:35001
- Fujita, Hiroshi (with Ikebe, Teruo; Inui, Teturo; Takami, Hideo) * Suri butsuri ni arawareru henbibun hoteishiki. I. (Japanese) [Partial differential equations in mathematical physics. Vol. I] 88b:35003a
(with Ikebe, Teruo; Inui, Teturo; Takami, Hideo) * Suributsuri ni arawareru henbibun hoteishiki. II. (Japanese) [Partial differential equations in mathematical physics. II] 88b:35003b
- Goncharenko, V. M. * Основы теории уравнений с частными производными. (Russian) [Foundations of the theory of partial differential equations] 88c:35001
- Gustafson, Karl. * Introduction to partial differential equations and Hilbert space methods. 88b:35001
- Haberman, Richard. * Elementary applied partial differential equations. 88b:35001
- Hill, J. M. * One-dimensional Stefan problems: an introduction. 88d:35001
- Ikebe, Teruo. See Fujita, Hiroshi; et al., 88b:35003a and 88b:35003b
- Inui, Teturo. See Fujita, Hiroshi; et al., 88b:35003a and 88b:35003b
- Kaneko, Akira. * Teisu keisu senkei henbibun hoteishiki. [Linear partial differential equations with constant coefficients] 88b:35004
- Komatsu, Hikosaburo. See Oshima, Toshio, 88b:35002
- Komura, Yukio (with Konishi, Yoshio) * Hiseikei hatten hoteishiki. (Japanese) [Nonlinear evolution equations] 88b:35006
- Konishi, Yoshio. See Komura, Yukio, 88b:35006
- Marcinkowska, H. * Wstęp do teorii równań różniczkowych cząstkowych. (Polish) [Introduction to the theory of partial differential equations] 88c:35002
- Masuda, Hisaya. * Hiseikei daen hoteishiki. (Japanese) [Nonlinear differential equations of elliptic type] 88b:35005
- Myint-U, Tyn (with Debnath, Lokenath) * Partial differential equations for scientists and engineers. 88d:35002
- Oshima, Toshio (with Komatsu, Hikosaburo) * Irkai henbibun hoteishiki. (Japanese) [Partial differential equations of first order] 88b:35002
- Panich, O. I. * Введение в общую теорию эллиптических краевых задач. (Russian) [Introduction to the general theory of elliptic boundary value problems] 88g:35001
- Reinhard, Hervé. * Équations aux dérivées partielles. (French) [Partial differential equations] 88d:35003
- Strichartz, Robert S. Realms of mathematics: elliptic, hyperbolic, parabolic, sub-elliptic. 88b:35002
- Takami, Hideo. See Fujita, Hiroshi; et al., 88b:35003a and 88b:35003b
- Thoe, Dale W. See Zachmanoglou, E. C., 88a:35001
- (Thomas, Charles B.) See Wloka, J., 88d:35004
- (Thomas, M. J.) See Wloka, J., 88d:35004
- Wloka, J. * Partial differential equations. 88d:35004
- Zachmanoglou, E. C. (with Thoe, Dale W.) * Introduction to partial differential equations with applications. 88a:35001

Items secondarily classified 35-01

- (Artola, Michel) See Dautray, Robert, 88i:00003a and 88i:00003b
- (Bardos, Claude) See Dautray, Robert, 88i:00003b
- (Bénilan, Philippe) See Dautray, Robert, 88i:00003a
- (Bernadou, M.) See Dautray, Robert, 88i:00003a
- Bobkov, V. V. See Krylov, V. I.; et al., 88b:65100
- (Cesennat, Michel) See Dautray, Robert, 88i:00003a; 88i:00003b and 88m:00002
- Dautray, Robert (with Lions, Jacques-Louis) * Analyse mathématique et calcul numérique pour les sciences et les techniques. Tome 2. (French) [Mathematical analysis and computing for science and technology. Vol. 2] 88i:00003a
(with Lions, Jacques-Louis) * Analyse mathématique et calcul numérique pour les sciences et les techniques. Tome 3. (French) [Mathematical analysis and computing for science and technology. Vol. 3] 88i:00003b
(with Lions, Jacques-Louis) * Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 1. (French) [Mathematical analysis and computing for science and technology. Vol. 1] 88m:00002
- (Gervat, André) See Dautray, Robert, 88m:00002
- Herrera, Ismael. Some unifying concepts in applied mathematics. 88b:00023
- (Karenyok, Alain) See Dautray, Robert, 88i:00003b
- Krall, A. M. * Applied analysis. 88b:00006
- Krylov, V. I. (with Bobkov, V. V.; Monastyrnyi, P. I.) * Начала теории вычислительных методов. Уравнения в частных производных. (Russian) [The beginnings of the theory of numerical methods. Partial differential equations] 88b:65100
- (Lanchon, Hélène) See Dautray, Robert, 88i:00003b and 88m:00002
- (Lascoux, P.) See Dautray, Robert, 88i:00003b
- Lions, Jacques-Louis. See Dautray, Robert, 88i:00003a; 88i:00003b and 88m:00002
- Logan, J. David. * Applied mathematics. 88i:00020
- Malakhovskaya, R. M. * Основные вариационные методы в математической физике. (Russian) [Basic variational methods in mathematical physics] 88m:00006
- (Mercier, Bertrand) See Dautray, Robert, 88i:00003b
- Monastyrnyi, P. I. See Krylov, V. I.; et al., 88b:65100
- (Nédélec, J.-C.) See Dautray, Robert, 88i:00003a
- Pelczar, Andrzej (with Szarski, Jacek) * Wstęp do teorii równań różniczkowych. Część I. (Polish) [Introduction to the theory of differential equations. Part I] 88k:34001
- (Pironneau, O.) See Dautray, Robert, 88i:00003b
- (Pianchard, J.) See Dautray, Robert, 88i:00003a
- Reddy, B. D. * Functional analysis and boundary value problems: an introductory treatment. 88g:46001
- (Scheurer, Bruno) See Dautray, Robert, 88i:00003a and 88i:00003b
- (Senti, Rémi) See Dautray, Robert, 88i:00003b
- (Simon, Bernhard) See Triebel, Hans, 88k:00003
- (Simon, Hedwig) See Triebel, Hans, 88k:00003

- Szarski, Jacek. See Pelczar, Andrzej, 88k:34001
- Triebel, Hans. * Analysis and mathematical physics. 88k:00003
- Zully, C. * Distributions et équations aux dérivées partielles. (French) [Distributions and partial differential equations] 88f:46001

35-02 Advanced exposition (research surveys, monographs, etc.)

- Adomian, George A. See Bellman, R., 88b:35007
- (Averbukh, V. I.) See Hörmander, Lars, 88a:35003 and 88m:35001
- Babich, V. M. (with Buldyrev, V. S.; Molotkov, I. A.) * Пространственно-временной лучевой метод. (Russian) [The space-time ray method] 88e:35002
- Bellman, R. (with Adomian, George A.) * Partial differential equations. 88b:35007
- (Berkhin, P. E.) See Hörmander, Lars, 88a:35003 and 88m:35001
- Bogoyavlenskii, O. I. (with Vladimirov, V. S.; Volovich, I. V.; Gushchin, A. K.; Drozhzhinov, Yu. N.; Zharinov, V. V.; Mikhailov, V. P.) Boundary value problems of mathematical physics. (Russian) 88f:35001
- Buldyrev, V. S. See Babich, V. M.; et al., 88e:35002
- (Buzyski, P. L.) See Krylov, N. V., 88d:35005
- Colton, David L. (with Kress, Rainer) * Методы интегральных уравнений в теории рассеяния. (Russian) [Integral equation methods in scattering theory] 88g:35002
- Cycon, H. L. (with Froese, R. G.; Kirsch, W.; Simon, Barry) * Schrödinger operators with application to quantum mechanics and global geometry. 88g:35003
- Drozhzhinov, Yu. N. See Bogoyavlenskii, O. I.; et al., 88f:35001
- Dzhuraev, T. D. (with Sopuev, A.; Mamazhanov, M.) * Красные задачи для уравнений парабола-гиперболического типа. (Russian) [Boundary value problems for equations of parabolic-hyperbolic type] 88a:35002
- Egorov, Yuri Vladimirovich. * Linear differential equations of principal type. 88c:35003
- (Erémín, Yu. A.) See Colton, David L., 88g:35002
- Froese, R. G. See Cycon, H. L.; et al., 88g:35003
- Gårding, Lars. * Singularities in linear wave propagation. 88k:35002
- Goldstein, Jerome A. Functional analytic and other methods in partial differential equations. 88k:35003
- Grubb, Gerd. * Functional calculus of pseudodifferential boundary problems. 88f:35002
- Gushchin, A. K. See Bogoyavlenskii, O. I.; et al., 88f:35001
- Henry, Daniel B. Topics in analysis. 88i:35001
- Hörmander, Lars. * Анализ линейных дифференциальных операторов с частными производными. Том 1. (Russian) [The analysis of linear partial differential operators. Vol. I] 88a:35003
* Анализ линейных дифференциальных операторов с частными производными. Том 2. (Russian) [The analysis of linear partial differential operators. Vol. II] 88a:35004
* Анализ линейных дифференциальных операторов с частными производными. Том 3. (Russian) [The analysis of linear partial differential operators. Vol. III] 88m:35001
- Hua, Luo Geng (with Lin, Wei; Wu, Zi Qian) * Second-order systems of partial differential equations in the plane. 88m:35002
- Kirsch, W. See Cycon, H. L.; et al., 88g:35003
- Kress, Rainer. See Colton, David L., 88g:35002
- Krylov, N. V. * Nonlinear elliptic and parabolic equations of the second order. 88d:35005
- (Kumar, Dang Prem) See Egorov, Yuri Vladimirovich, 88c:35003
- Lia, Wei. See Hua, Luo Geng; et al., 88m:35002
- Mamazhanov, M. See Dzhuraev, T. D.; et al., 88a:35002
- Marchenko, V. A. * Нелинейные уравнения и операторные алгебры. (Russian) [Nonlinear equations and operator algebras] 88j:35001
- Mikhailov, V. P. See Bogoyavlenskii, O. I.; et al., 88f:35001
- Molotkov, I. A. See Babich, V. M.; et al., 88e:35002
- (Namazon, G. K.) See Partial differential equations and their applications, 88b:35008
- Rodriguez, José-Francisco. * Obstacle problems in mathematical physics. 88d:35006
- Schuur, Peter Cornelis. * Asymptotic analysis of soliton problems. 88e:35003
- (Shubin, M. A.) See Hörmander, Lars, 88a:35003; 88a:35004 and 88m:35001
- Simon, Barry. See Cycon, H. L.; et al., 88g:35003
- Sopuev, A. See Dzhuraev, T. D.; et al., 88a:35002
- (Sveshnikov, A. G.) See Colton, David L., 88g:35002
- Vladimirov, V. S. See Bogoyavlenskii, O. I.; et al., 88f:35001
- Volovich, I. V. See Bogoyavlenskii, O. I.; et al., 88f:35001
- Wu, Zi Qian. See Hua, Luo Geng; et al., 88m:35002
- (Zakharov, E. V.) See Colton, David L., 88g:35002
- Zharinov, V. V. See Bogoyavlenskii, O. I.; et al., 88f:35001

Unauthored items

- Lecture Notes in Mathematics. See Schuur, Peter Cornelis, 88e:35003 and Gårding, Lars, 88k:35002

- Partial differential equations and their applications. * Дифференциальные уравнения с частными производными и их приложения. (Russian) [Partial differential equations and their applications] 88b:35008

- Progress in Mathematics. See Grubb, Gerd, 88f:35002

Items secondarily classified 35-02

- (Farkas, M.) See Proceedings: Conference on Nonlinear Oscillations, 88k:34002
- Kato, Tossio. * Abstract differential equations and nonlinear mixed problems. 88m:34058
- (Kertész, V.) See Proceedings: Conference on Nonlinear Oscillations, 88k:34002
- Keyfitz, Barbara Lee. A survey of nonstrictly hyperbolic conservation laws. 88i:35098
- Maslov, V. P. * Асимптотические методы решения псевдодифференциальных уравнений. (Russian) [Asymptotic methods for solving pseudodifferential equations] 88g:35210
- Ma'ya, V. G. (with Shaposhnikova, T. O.) * Мультипликаторы в пространствах дифференцируемых функций. (Russian) [Multipliers in spaces of differentiable functions] 88j:46021
- Shaposhnikova, T. O. See Ma'ya, V. G., 88j:46021
- (Stépan, G.) See Proceedings: Conference on Nonlinear Oscillations, 88k:34002
- Wen, Guo Chun. * Xianxing yu feixianxing tuoyuanxing fu fangcheng. (Chinese) [Linear and nonlinear complex elliptic equations] 88b:35054

Unauthored items

Budapest ★ Proceedings of the Eleventh International Conference on Nonlinear Oscillations. 88k:34002

Conference:

Nonlinear Oscillations ★ Proceedings of the Eleventh International Conference on Nonlinear Oscillations. 88k:34002

Proceedings:

Conference on Nonlinear Oscillations ★ Proceedings of the Eleventh International Conference on Nonlinear Oscillations. 88k:34002

35-03 Historical (must also be assigned at least one classification number from Section 01)

Cinquini, Silvio Tonelli's constructive method in the study of partial differential equations. 88f:35003

Items secondarily classified 35-03

(Aleksandrov, P. S.) See Petrovskii, I. G., 88m:01108

Andrianova, N. B. Mathematical methods in electrostatics in the first half of the nineteenth century. (Russian) 88i:01041

(Arnold, V. I.) See Petrovskii, I. G., 88f:01059

Bogolyubov, Aleksei Nikolaevich Mathematical physics in the nineteenth century. (Russian) 88g:01019

(Bogolyubov, N. N.) See Petrovskii, I. G., 88f:01059

(Gabrielov, A. M.) See Petrovskii, I. G., 88f:01059

(Gelfand, I. M.) See Petrovskii, I. G., 88f:01059

Goldstein, Jerome A. Functional analytic and other methods in partial differential equations. 88k:35003

(Ivrit, V. Ya.) See Petrovskii, I. G., 88f:01059

(Kharlamov, V. M.) See Petrovskii, I. G., 88f:01059

(Kolmogorov, A. N.) See Petrovskii, I. G., 88f:01059

Kovalchuk, L. V. On Pfeiffer's generalization of Jacobi's method. (Russian) 88f:01021

(Oleinik, O. A.) See Petrovskii, I. G., 88f:01059 and 88m:01108

(Palamodov, V. P.) See Petrovskii, I. G., 88f:01059

Petrovskii, I. G. ★ Избранные труды. (Russian) [Selected works] 88f:01059

★ Избранные труды. (Russian) [Selected works] 88m:01108

(Pfeiffer, G. V.) See Kovalchuk, L. V., 88f:01021

(Shilov, G. E.) See Petrovskii, I. G., 88f:01059

(Sobolev, S. L.) See Petrovskii, I. G., 88f:01059

(Tikhonov, A. N.) See Petrovskii, I. G., 88f:01059

Vizgin, V. P. Between mechanics and mathematics: analytical mechanics as a factor in the development of mathematics (the nineteenth century). (Russian) 88i:01058

(Volevich, L. R.) See Petrovskii, I. G., 88f:01059

Unauthored items

Biography:

Petrovskii, I. G. See Petrovskii, I. G., 88m:01108

35-04 Explicit machine computation and programs (not the theory of computation or programming)

Korniyak, V. V. Application of a computer for the investigation of the symmetries of some equations of mathematical physics. (Russian) 88f:35004

Items secondarily classified 35-04

Berceanu, S. See Ixaru, L. Gr., 88i:01009

Fuchssteiner, Benno (with Oevel, Walter; Wiwanka, Waldemar) Computer-algebra methods for investigation of hereditary operators of higher order soliton equations. 88g:58080

Ixaru, L. Gr. (with Berceanu, S.) Coleman's method maximally adapted to the Schrödinger equation. 88i:81009

Oevel, Walter See Fuchssteiner, Benno; et al., 88g:58080

Rabedzhanov, N. R. Integration of partial differential equations in a multidimensional space. (Russian. Tajiki summary) 88m:65195

Wiwanka, Waldemar See Fuchssteiner, Benno; et al., 88g:58080

35-06 Proceedings, conferences, etc.

(Ablowitz, Mark J.) See Topics in soliton theory and exactly solvable nonlinear equations, 88d:35009

(Berezanskii, Yu. M.) See Spectral theory of operator-differential equations, 88a:35005 and Direct and inverse problems of the spectral theory of differential operators, 88b:35010

(Boccardo, Lucio) See Nonlinear parabolic equations: qualitative properties of solutions, 88d:35007

(Bossavit, A.) See Free boundary problems: applications and theory, 88f:35006

(Bragg, Louis R.) See Conference: Partial differential equations and applied mathematics, 88b:35009

(Carasso, C.) See Nonlinear hyperbolic problems, 88b:35004

(Colombini, Ferruccio) See Hyperbolic equations, 88g:35004

(Cordes, H. O.) See Pseudodifferential operators, 88d:35008

(Damianian, Alain) See Free boundary problems: applications and theory, 88f:35006

(Dettman, John W.) See Conference: Partial differential equations and applied mathematics, 88b:35009

(Díaz Díaz, Jesús Ildefonso) See Contributions to nonlinear partial differential equations, 88b:35003

(Dzhaiani, G. V.) See Partial differential equations and their applications, 88e:35006

(Dzhurav, T. D.) See Differential equations and their applications to mechanics, 88j:35002 and Equations of mixed type and free boundary value problems, 88j:35003

(Frémond, M.) See Free boundary problems: applications and theory, 88f:35006

(Fuchssteiner, Benno) See Topics in soliton theory and exactly solvable nonlinear equations, 88d:35009

(Fushchich, V. I.) See Group-theoretic investigations of the equations of mathematical physics, 88e:35005

(Gill, Tepper L.) See Nonlinear semigroups, partial differential equations and attractors, 88b:35011

(Godunov, S. K.) See Qualitative analysis of solutions of partial differential equations, 88b:35012 and Boundary value problems for partial differential equations, 88f:35005

(Gramsch, B.) See Pseudodifferential operators, 88d:35008

(Hutchinson, John E.) See Miniconference on geometry and partial differential equations, 88j:35005

(Januskauskas, Algimantas) See Studies in multidimensional elliptic systems of partial differential equations, 88g:35005

(Kim, E. I.) See Equations with discontinuous coefficients and their applications, 88e:35004

(Kruskal, M.) See Topics in soliton theory and exactly solvable nonlinear equations, 88d:35009

(Lions, Pierre-Louis) See Contributions to nonlinear partial differential equations, 88b:35003

(Magnaradz, L. G.) See Partial differential equations and their applications, 88e:35006

(Masuda, Kyūya) See Recent topics in nonlinear PDE, 88j:35006

(Mitropolskii, Yu. A.) See Partial differential equations in applied problems, 88f:35007

(Mizohata, Sigeru) See Hyperbolic equations and related topics, 88j:35004

(Murthy, M. K. V.) See Hyperbolic equations, 88g:35004

(Namazov, G. K.) See Some problems in the theory of partial differential equations, 88k:35004

(Raviart, Pierre-Arnaud) See Nonlinear hyperbolic problems, 88b:35004

(Salakhitdinov, M. S.) See Differential equations and their applications to mechanics, 88j:35002 and Equations of mixed type and free boundary value problems, 88j:35003

(Serre, Denis) See Nonlinear hyperbolic problems, 88b:35004

(Simon, Leon) See Miniconference on geometry and partial differential equations, 88j:35005

(Suzuki, Takashi) See Recent topics in nonlinear PDE, 88j:35006

(Tesei, Alberto) See Nonlinear parabolic equations: qualitative properties of solutions, 88d:35007

(Tromba, A. J.) See Seminar: New results in nonlinear partial differential equations, 88b:35013

(Widom, H.) See Pseudodifferential operators, 88d:35008

(Zachary, Woodford W.) See Nonlinear semigroups, partial differential equations and attractors, 88b:35011

Unauthored items

All-Union symposium:

Partial differential equations and their applications ★ Дифференциальные уравнения в частных производных и их приложения. (Russian) [Partial differential equations and their applications] 88e:35006

Bonn ★ Seminar on new results in nonlinear partial differential equations. 88b:35013

Boundary value problems for partial differential equations ★ Краевые задачи для уравнений с частными производными. (Russian) [Boundary value problems for partial differential equations] 88f:35005

Canberra ★ Miniconference on geometry and partial differential equations. 2. 88j:35005

Colloquium:

Free boundary problems: applications and theory ★ Free boundary problems: applications and theory. Vol. IV. 88f:35006

Nonlinear partial differential equations ★ Contributions to nonlinear partial differential equations. Vol. II. 88b:35003

Conference:

Geometry and partial differential equations ★ Miniconference on geometry and partial differential equations. 2. 88j:35005

Hyperbolic equations ★ Hyperbolic equations. 88g:35004

Nonlinear evolution equations, solitons and the inverse scattering transform ★ Topics in soliton theory and exactly solvable nonlinear equations. 88d:35009

Nonlinear parabolic equations: qualitative properties of solutions ★ Nonlinear parabolic equations: qualitative properties of solutions. 88d:35007

Partial differential equations ★ Journées "Equations aux dérivées partielles". (French) [Proceedings of the conference on partial differential equations] 88b:35005

Partial differential equations and applied mathematics ★ Oakland conference on partial differential equations and applied mathematics. 88b:35009

Pseudodifferential operators ★ Pseudodifferential operators. 88d:35008

Contributions to nonlinear partial differential equations ★ Contributions to nonlinear partial differential equations. Vol. II. 88b:35003

Differential equations and their applications to mechanics ★ Дифференциальные уравнения и их приложения к механике. (Russian) [Differential equations and their applications to mechanics] 88j:35002

Direct and inverse problems of the spectral theory of differential operators ★ Прямые и обратные задачи спектральной теории дифференциальных операторов. (Russian) [Direct and inverse problems of the spectral theory of differential operators] 88b:35010

Equations of mixed type and free boundary value problems ★ Уравнения смешанного типа и задачи со свободной границей. (Russian) [Equations of mixed type and free boundary value problems] 88j:35003

Equations with discontinuous coefficients and their applications ★ Уравнения с разрывными коэффициентами и их приложения. (Russian) [Equations with discontinuous coefficients and their applications] 88e:35004

Free boundary problems: applications and theory ★ Free boundary problems: applications and theory. Vol. IV. 88f:35006

Group-theoretic investigations of the equations of mathematical physics ★ Теоретико-групповые исследования уравнений математической физики. (Russian) [Group-theoretic investigations of the equations of mathematical physics] 88e:35005

Hyperbolic equations ★ Hyperbolic equations. 88g:35004

Hyperbolic equations and related topics ★ Hyperbolic equations and related topics. 88j:35004

- Katata** ★ Hyperbolic equations and related topics. 88j:35004
- Kyoto** ★ Hyperbolic equations and related topics. 88j:35004
- Lecture Notes in Mathematics** ★ Nonlinear semigroups, partial differential equations and attractors. 88b:35011
- ★ Pseudodifferential operators. 88d:35008
- ★ Nonlinear hyperbolic problems. 88b:35004
- Mauluisson** ★ Free boundary problems: applications and theory. Vol. IV. 88f:35006
- Meeting:**
- Nonlinear partial differential equations** ★ Recent topics in nonlinear PDE. III. 88j:35006
- Miniconference on geometry and partial differential equations** ★ Miniconference on geometry and partial differential equations. 2. 88j:35005
- Nonlinear hyperbolic problems** ★ Nonlinear hyperbolic problems. 88b:35004
- Nonlinear parabolic equations: qualitative properties of solutions** ★ Nonlinear: parabolic equations: qualitative properties of solutions. 88d:35007
- Nonlinear semigroups, partial differential equations and attractors** ★ Nonlinear semigroups, partial differential equations and attractors. 88b:35011
- Oberwolfach** ★ Pseudodifferential operators. 88d:35008
- ★ Topics in soliton theory and exactly solvable nonlinear equations. 88d:35009
- Padova** ★ Hyperbolic equations. 88j:35004
- Paris** ★ Contributions to nonlinear partial differential equations. Vol. II. 88b:35003
- Partial differential equations and their applications** ★ Дифференциальные уравнения в частных производных и их приложения. (Russian) [Partial differential equations and their applications] 88e:35006
- Partial differential equations in applied problems** ★ Дифференциальные уравнения с частными производными в прикладных задачах. (Russian) [Partial differential equations in applied problems] 88f:35007
- Proceedings:**
- Conference on partial differential equations** ★ Journées "Équations aux dérivées partielles". (French) [Proceedings of the conference on partial differential equations] 88b:35005
- Pseudodifferential operators** ★ Pseudodifferential operators. 88d:35008
- Qualitative analysis of solutions of partial differential equations** ★ Качественный анализ решений дифференциальных уравнений с частными производными. (Russian) [Qualitative analysis of solutions of partial differential equations] 88b:35012
- Recent topics in nonlinear PDE** ★ Recent topics in nonlinear PDE. III. 88j:35006
- Rochester, Mich.** ★ Oakland conference on partial differential equations and applied mathematics. 88b:35009
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- On estimates for and the existence of solutions of a class of inverse problems for elliptic equations. (Russian) 88j:35154
- Kogan, Yu. V. Spectral properties of the Cauchy-Poisson problem. (Russian) 88m:58181
- Lacaze, Jacques Étude des équations linéaires elliptiques du second ordre sur les variétés euclidiennes à l'infini par des méthodes hilbertiennes. (English summary) [Study by Hilbert space methods of second-order linear elliptic equations on manifolds Euclidean at infinity] 88g:58188
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- Ligocka, Ewa On the orthogonal projections onto spaces of pluriharmonic functions and duality. 88c:32009
- Luskin, Mitchell See Chipot, Michel, 88c:76040
- Mosco, Umberto See Buttazzo, Giuseppe; et al., 88d:28007
- Najman, Branko The trace theorem in $H^{1/2}$. 88k:46072
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- Oppizzi, Pirro Integral representation of local functionals in higher-order Sobolev spaces. (Italian. English summary) 88c:49034
- Oswald, Luc See Brezis, Haim, 88i:49009
- Payne, L. E. Some remarks on overdetermined systems in linear elasticity. 88j:35119
- Raphael, Louise Pointwise and $L^p(\mathbb{R}^n)$ convergence of elliptic eigenfunction expansions. 88j:35123
- Rassias, Themistocles M. On some properties of harmonic mappings and the Poincaré inequality. 88f:58034
- Russo, Remigio Uniqueness in classical elastostatics. 88m:73006
- Samoilenko, V. G. See Berezanskii, Yu. M., 88m:35150

- Schulze, B.-W. Mellin expansions of pseudodifferential operators and conormal asymptotics of solutions. 88c:35193
- Shamaev, A. S. See Iosifyan, G. A.; et al., 88g:73017
- Sheretov, V. G. The generalized Dirichlet integral and weakly harmonic mappings. (Russian) 88k:30020
- Simon, László Asymptotic behaviour of minimal graphs over exterior domains. (French summary) 88c:49068
- Tarakanov, V. I. A priori estimates on the boundary of the domain for the solution of boundary value problems of plane elasticity. (Russian) 88i:73007
- Tarkhanov, N. N. Laurent series for elliptic complexes. (Russian) 88c:58056
- Tarnai, T. Existence and uniqueness criteria of the membrane state of shells. III. Elliptic shells. 88h:73021
- Torae, A. (with Atakuttyev, M.) Oscillation and nonoscillation criteria of Kneser type for elliptic equations of nondivergence form in nonbounded domains. (Russian. English summary) 88f:35017
- Wendland, W. L. Bemerkungen zu Randelementmethoden bei Rissproblemen. [Remarks on boundary element methods for crack problems] 88a:73064
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35Kxx Parabolic equations and systems

[See also 58G11.]

Items secondarily classified 35Kxx

- Pavel, Nicolae H. ★ Nonlinear evolution operators and semigroups. 88j:47087

Unauthored items

- Lecture Notes in Mathematics See Pavel, Nicolae H., 88j:47087

35K05 Heat equation

- Abenov, M. M. See Kim, E. I., 88j:35067
- Adomian, George A. Modification of the decomposition approach to the heat equation. (Not in MR)
- Ad'yutov, M. M. Self-similar peaking thermal structures in a medium with distributed parameters. (Russian) 88d:35084
- Bardos, Claude Introduction to the equations of mathematical physics: application of the theory of semigroups to two model equations. 88c:35085
- Bear, H. S. Liouville theorems for heat functions. 88a:35113
- van den Berg, Michiel On the asymptotics of the heat equation and bounds on traces associated with the Dirichlet Laplacian. 88d:35085
- Chavel, Isaac Heat diffusion in insulated convex domains. 88b:35087
- Christov, C. I. The method of variational imbedding for time reversal parabolic incorrect problems. 88j:35066
- Day, W. A. Sinks and boundary temperatures that neutralize a heat source. 88c:35086
- Kaliev, K. A. Construction of the fundamental solution of a conjugation problem. (Russian) 88c:35069
- Khairullin, E. M. Solution by the method of thermal potentials of a boundary value problem for the heat-conduction equation with discontinuous coefficients. (Russian) 88f:35057
- Kim, E. I. (with Abenov, M. M.) On a linear nonclassical problem for a two-dimensional equation of heat conduction with a discontinuous coefficient. (Russian. Kazakh summary) 88j:35067
- Koilyshov, U. K. The heat-conduction equation with a discontinuous coefficient when the curve of the discontinuity is moving. (Russian) 88g:35096
- Kozlov, V. A. (with Maz'ya, V. G.) Singularities of solutions of the first boundary value problem for the heat equation in domains with conical points. I. (Russian) 88j:35068a
- (with Maz'ya, V. G.) Singularities of solutions of the first boundary value problem for the heat equation in domains with conical points. II. (Russian) 88j:35068b
- Maz'ya, V. G. See Kozlov, V. A., 88j:35068a and 88j:35068b
- Omarov, T. E. Conditions for the solvability by the method of potentials of the first boundary value problem for the heat-conduction equation in degenerate domains. (Russian) (See 88c:35004)
- Prilepko, A. I. (with Volkov, N. P.) Inverse problems for the determination of parameters of a nonstationary transport equation by overdeterminations of integral type. (Russian) 88g:35097
- Umanskii, V. S. On removable sets of solutions of second-order parabolic equations. (Russian) 88j:35069
- Volkov, N. P. See Prilepko, A. I., 88g:35097
- Watson, N. A. On the representation of solutions of the heat equation and weakly coupled parabolic systems. 88d:35086

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- Alexiades, V. See Solomon, Alan D.; et al., 88g:35208
- Andreucci, Daniele Existence of local solutions and continuous dependence on the data for a free-boundary problem in cylindrical symmetry. (Italian. English summary) 88d:35193
- Bazali, B. V. The Stefan problem. (Russian. English summary) 88c:35156
- (with Degtyarev, S. P.) On the classical solvability of a multidimensional Stefan problem with convective movement of a viscous incompressible fluid. 88j:35157
- Beals, Richard (with Stanton, Nancy K.) The heat equation and geometry for the $\bar{\partial}$ -Neumann problem. (See 88g:30003)
- Bear, H. S. Hardy spaces of heat functions. 88i:46036
- Bizhanova, G. I. Nonconstant fusion temperature in a Stefan problem. (Russian) (See 88c:35004)
- Bonnans, Joseph Frédéric (with Cases Renteria, Eduardo) Quelques méthodes pour le contrôle optimal de problèmes comportant des contraintes sur l'état. [Some optimal control methods for problems with state constraints] 88g:49022

- Cannon, John R. (with Pérez Esteve, Salvador) A note on an inverse problem related to the 3-D heat equation. **88k:35209**
- Cases Rentería, Eduardo See Bonnans, Joseph Frédéric, **88g:49022**
- Chen, Ya Zhe Global Lipschitz continuity of free boundaries in the one-phase Stefan problem. **88d:35194**
- Cochran, James A. Three-dimensional temperature response to impulsive input outside a spherical reservoir. **88g:35038**
- Davies, E. B. Explicit constants for Gaussian upper bounds on heat kernels. **88g:58174**
The equivalence of certain heat kernel and Green function bounds. **88h:35031**
- Debiard, Amédée (with Gaveau, Bernard) Noyaux de la chaleur de certaines équations aux dérivées partielles à singularité régulière et applications à certains espaces symétriques. (English summary) [Heat kernels of certain partial differential equations with regular singularities and applications to certain symmetric spaces] **88b:58134**
- Degtyarev, S. P. See Bazali, B. V., **88j:35157**
- Eldén, Lars Approximations for a Cauchy problem for the heat equation. **88k:80003**
- Elworthy, K. D. (with Ndumu, M. N.; Truman, A.) An elementary inequality for the heat kernel on a Riemannian manifold and the classical limit of the quantum partition function. **88m:58201**
- Feng, De Xing (with Zhang, Bing Yu) Optimal control of a parabolic pointwise control system and perturbation of domains. (Chinese. English summary) **88k:93061**
- Friedman, Avner (with Herrero, M. A.) Extinction properties of semilinear heat equations with strong absorption. **88m:35084**
- Gaveau, Bernard See Debiard, Amédée, **88b:58134**
- Grigor'yan, A. A. On the fundamental solution of the heat equation on an arbitrary Riemannian manifold. (Russian) **88g:58175**
- Herrero, M. A. (with Vázquez, Juan L.) The one-dimensional nonlinear heat equation with absorption: regularity of solutions and interfaces. **88a:35124**
See also Friedman, Avner, **88m:35084**
- Jerison, David (with Sánchez-Calle, Antonio) Estimates for the heat kernel for a sum of squares of vector fields. **88c:58064**
- Jiang, Li Shang Remarks on the Stefan-Signorini problem. **88c:35161**
- Jiang, Lu Further discussion of algebraic structure in the problem of nonlinear Brownian motion. (Chinese) (Not in MR)
- Kartashov, É. M. Generalized integral transform method for the solution of the heat-conduction equation in a region with moving boundaries. **88i:80003**
- Kawashima, Shuichi Large-time behavior of solutions for hyperbolic-parabolic systems of conservation laws. **88a:35152**
- Kharin, S. N. See Kudrya, V. I.; et al., **88c:35031**
- Kim, E. I. (with Kulakhmetova, Sh. A.) Construction of a fundamental solution for the heat-conduction equation with discontinuous coefficients. (Russian) **88f:35141**
- Konet, I. M. See Lenyuk, M. P., **88c:80007**
- Koshchev, V. N. (with Saichev, A. I.) Solution of an inhomogeneous boundary value problem for a parabolic equation with conditions on the moving boundary. (Russian) **88i:35183**
- Kostousova, E. K. On the observability of systems of ordinary differential equations which approximate the heat conduction equation. (Russian) **88g:93027**
- Kudrya, V. I. (with Pudy, A. E.; Kharin, S. N.) Fundamental solution and thermal potential of the heat-conduction equation for a rod with variable cross section. (Russian) **88c:35031**
- Kulakhmetova, Sh. A. On some problems of the heat-conduction equation with discontinuous coefficients when the curve of the discontinuity of the coefficient extends to the boundary. (Russian) **88f:35142**
See also Kim, E. I., **88f:35141**
- Lenyuk, M. P. (with Konet, I. M.) Generalized nonstationary temperature fields in two-dimensional rectangular domains. (Russian) **88c:80007**
- Louro, Bento (with Rodrigues, José-Francisco) Remarks on the quasisteady one phase Stefan problem. **88c:35186**
- Machavariani, I. D. On the generalization of the heat potential. **88k:31013**
- Marangunic, Pedro (with Turner, Cristina) The behavior of the solutions of a two-phase Stefan problem and the value of an energy integral. **88d:35197**
- Meirmanov, A. M. ★ Задача Стефана. (Russian) [The Stefan problem] **88b:35213**
- Minasyan, R. S. A mixed boundary value problem of heat conduction for a hollow cylinder of finite length. (Russian. Armenian summary) **88b:35028**
- Mysovskikh, P. I. The parabolic capacity of a set and some characteristics of and estimates for it. (Russian) **88k:31014**
- Ndumu, M. N. An elementary formula for the Dirichlet heat kernel on Riemannian manifolds. **88m:58202**
See also Elworthy, K. D.; et al., **88m:58201**
- Pérez Esteve, Salvador See Cannon, John R., **88k:35209**
- Pudy, A. E. See Kudrya, V. I.; et al., **88c:35031**
- Rodrigues, José-Francisco See Louro, Bento, **88c:35186**
- Rundell, William The determination of a parabolic equation from initial and final data. **88b:35204**
- Saichev, A. I. See Koshchev, V. N., **88i:35183**
- Sánchez-Calle, Antonio See Jerison, David, **88c:58064**
- Shmarev, S. I. A self-similar multidimensional Stefan problem. (Russian) **88d:35198**
- Solomon, Alan D. (with Alexiades, V.; Wilson, D. G.) The initial velocity of the emerging free boundary in a two-phase Stefan problem with imposed flux. **88g:35208**
- Stanton, Nancy K. See Beals, Richard, **88g:30003**
- Truman, A. See Elworthy, K. D.; et al., **88m:58201**
- Tsirelman, N. M. Group analysis of the heat-conduction equation. I. Invariant solutions. **88k:80008**
- Turner, Cristina See Marangunic, Pedro, **88d:35197**
- Vázquez, Juan L. See Herrero, M. A., **88a:35124**
- Watanabe, Shinzo Analysis of Wiener functionals (Malliavin calculus) and its applications to heat kernels. **88h:60111**
- Wilson, D. G. See Solomon, Alan D.; et al., **88g:35208**
- Zhang, Bing Yu See Feng, De Xing, **88k:93061**

35K10 Second-order equations, general

- Cannon, John R. (with van der Hoek, John) Diffusion subject to the specification of mass. **88c:35070**
- Carlen, E. A. (with Kusuoka, S.; Stroock, D. W.) Upper bounds for symmetric Markov transition functions. (French summary) **88i:35066**
- Fabes, Eugene B. (with Garofalo, Nicola) Mean value properties of solutions to parabolic equations with variable coefficients. **88b:35088**
- Friedman, Avner Monotonic decay of solutions of parabolic equations with nonlocal boundary conditions. **88b:35045**
- Garofalo, Nicola Uniqueness in the past for parabolic equations with strongly singular potentials. (Italian summary) **88b:35089**
See also Fabes, Eugene B., **88b:35088**
- van der Hoek, John See Cannon, John R., **88c:35070**
- Kamynin, L. I. (with Khimchenko, B. N.) A theorem on the space derivative for a second-order one-dimensional parabolic equation. (Russian) **88c:35071**
- Khimchenko, B. N. See Kamynin, L. I., **88c:35071**
- Koshchev, V. N. (with Saichev, A. I.) Generalization of the reflection method for parabolic equations with homogeneous boundary conditions on the variable boundary. (Russian. English summary) **88d:35087**
- Kusuoka, S. See Carlen, E. A.; et al., **88i:35066**
- Lezhnev, A. V. The behavior for large time values of nonnegative solutions of the second mixed problem for a parabolic equation. (Russian) **88c:35087**
- Mikhailova, N. A. A theorem on the growth of positive solutions of second-order degenerate parabolic equations. (Russian. English and Azerbaijani summaries) **88f:35058**
- Pinchover, Yehuda Sur les solutions positives d'équations elliptiques et paraboliques dans \mathbb{R}^n . (English summary) [On positive solutions of elliptic and parabolic equations in \mathbb{R}^n] **88a:35114**
- Saichev, A. I. See Koshchev, V. N., **88d:35087**
- Saut, J.-C. (with Scheurer, Bruno) Unique continuation for some evolution equations. **88a:35115**
- Scheurer, Bruno See Saut, J.-C., **88a:35115**
- Stroock, D. W. See Carlen, E. A.; et al., **88i:35066**
- Tersenov, S. A. ★ Параболические уравнения с меняющимся направлением времени. (Russian) [Parabolic equations with changing time direction] **88d:35088**
- Yunusov, Anarby See Zhumabekov, L. Zh., (88c:35004)
- Zhumabekov, L. Zh. (with Yunusov, Anarby) A priori estimates for the solution of a parabolic equation with discontinuous coefficient in a bounded domain. (Russian) (See **88c:35004**)

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- Bokhonov, Yu. E. On linear parabolic and elliptic systems with a finite-dimensional and an infinite-dimensional argument. (Russian) **88i:35171**
- Cannarsa, P. (with Vespri, Vincenzo) Generation of analytic semigroups by elliptic operators with unbounded coefficients. **88d:47053**
- Fabes, Eugene B. (with Stroock, D. W.) A new proof of Moser's parabolic Harnack inequality using the old ideas of Nash. **88b:35037**
- van Harten, Aart On the spectral properties of a class of elliptic functional-differential operators arising in feedback control theory for diffusion processes. **88b:35195**
- Huang, Hai See Kushner, Harold J., **88c:35189**
- Kleinig, Wolfgang Stabilisierung von Lösungen schwach gekoppelter Systeme von Reaktions-Diffusions-Gleichungen. [Stabilization of solutions of weakly coupled systems of reaction-diffusion equations] **88f:35024**
- Kushner, Harold J. (with Huang, Hai) Asymptotic properties, stability and "near" stationarity of parabolic partial differential equations with wide bandwidth inputs. **88c:35189**
- Lelikova, E. F. Asymptotic behavior of the fundamental solution of a parabolic equation as $t \rightarrow \infty$. **88b:35017**
- Lyashko, S. I. On the solvability of mixed boundary value problems with operator coefficients. (Russian) **88b:35109**
- Niu, Pei Ping A class of retarded parabolic equations. (Chinese) **88b:35197**
- Rivera Rodríguez, Pedro Humberto (with Vasconcellos, C. F.) Optimal control for a backward parabolic system. **88j:49014**
- Stroock, D. W. See Fabes, Eugene B., **88b:35037**
- Strunkov, S. P. On an inverse problem for parabolic equations. (Russian) (See **88g:00008**)
- Suzuki, Takashi (with Yamamoto, Masahiro) Observability, controllability, and feedback stabilizability for evolution equations. III. **88m:93088**
- Uzlov, A. E. On the determination of coefficients in a parabolic equation. (Russian) (See **88g:00008**)
- Vasconcellos, C. F. See Rivera Rodríguez, Pedro Humberto, **88j:49014**
- Vespri, Vincenzo See Cannarsa, P., **88d:47053**
- Wang, Xiu Lan An inverse problem for a parabolic equation. (Chinese. English summary) **88b:35202**
- Yakubov, S. A class of problems with an unknown boundary for an equation of parabolic type. (Russian) (See **88j:35002**)
- Yamamoto, Masahiro See Suzuki, Takashi, **88m:93088**

35K15 Second-order equations, initial value problems

- Borisenko, A. D. Limit behavior of the solution of the Cauchy problem for equations of parabolic type. (Russian) (See **88j:00018**)
- Éidel'man, S. D. See Porper, F. O., **88g:35098**
- Garrett, A. J. M. Solution of $\partial_t \varphi = [\partial_x^2 - V(\Omega)]\varphi$ in an arbitrary interval by the method of primitive propagators. **88c:35072**
- Ogura, Yukio (with Shimakura, Norio) Stationary solutions and their stability for Kimura's diffusion model with intergroup selection. **88i:35067**
- Peletier, L. A. (with Terman, David) A very singular solution of the porous media equation with absorption. **88b:35090**

- Purper, F. O. (with Eidelman, S. D.) Properties of weak fundamental solutions of parabolic equations with lower-order derivatives. (Russian) **88g:35098**
- Repnikov, V. D. Stabilization of the solutions of parabolic equations with oscillating coefficients. (Russian) **88m:35070**
- von Scheidt, Jürgen Ein stochastisches Randanfangswertproblem für parabolische Differentialgleichungen. [A stochastic initial-boundary value problem for parabolic differential equations] **88b:35091**
- Shimakura, Norio See Ogura, Yukio, **88i:35067**
- Terman, David See Peletier, L. A., **88b:35090**
- Tsarkova, E. V. On some asymptotic problems for a diffusion equation. (Russian) **88m:35071**

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- Chistyakov, V. M. On the smoothness of solutions of parabolic systems. (Russian) **88c:35073**
- Da Prato, G. Some results on parabolic evolution equations with infinitely many variables. **88g:35191**
- Garofalo, Nicola Uniqueness in the past for parabolic equations with strongly singular potentials. (Italian summary) **88b:35089**
- Levine, Harold On the solution of an unsteady diffusion problem and its ultimate behaviour. **88i:80004**
- Wang, Xia Lan Determination of the coefficients of parabolic equations. (Chinese. English summary) **88m:35157**
- Wang, Zhen Yu See Zhang, Hong Qing¹, **88f:73020**
- Yuan, Yong Regularity of the free boundary for a one-dimensional infiltration problem. (Chinese. English summary) **88d:35200**
- Zhang, Gong An On the determination of the two unknown coefficients in a parabolic equation. (Chinese. English summary) **88b:35217**
- Zhang, Hong Qing¹ (with Wang, Zhen Yu) The completeness and approximation of Hu Hai Chang's solution. **88f:73020**

35K20 Second-order equations, boundary value problems

- Abdullaeva, G. Z. Continuous dependence of the classical solution of a nonlinear inverse boundary value problem for second-order parabolic equations. (Russian. English and Azerbaijani summaries) **88a:35116**
- Aliev, R. D. Uniqueness of the solution of the generalized Poincaré problem of parabolic equations in noncylindrical domains with a nonsmooth boundary. (Russian) **88b:35092**
- The generalized Neumann problem for parabolic equations in domains with nonsmooth boundary. (Russian. English and Azerbaijani summaries) **88a:35117**
- Alkhutov, Yu. A. (with Mamedov, I. T.) The first boundary value problem for second-order nondivergence parabolic equations with discontinuous coefficients. **88i:35068**
- Azlmov, E. Kh. (with Rasulov, M. A.) Analytic solution of an equation of parabolic type with piecewise-constant coefficients (diffraction problem). (Russian. English and Azerbaijani summaries) **88b:35070**
- Chien, V. (with Proctor, G.) A diffusion problem on a semi-infinite interval: approximate solutions and parameter estimations. **88m:35072**
- Chistyakov, V. M. On the smoothness of solutions of parabolic systems. (Russian) **88c:35073**
- Doan Văn Ngự (with Nguyễn Hoàng) A mixed problem for second-order parabolic equations in domains with an irregular boundary. (Vietnamese. Russian summary) **88m:35073**
- Fabes, Eugene B. (with Garofalo, Nicola; Salsa, Sandro) Comparison theorems for temperatures in noncylindrical domains. (Italian summary) **88i:35069**
- (with Garofalo, Nicola; Salsa, Sandro) A backward Harnack inequality and Fatou theorem for nonnegative solutions of parabolic equations. **88d:35089**
- Garofalo, Nicola See Fabes, Eugene B.; et al., **88d:35089** and **88i:35069**
- Garrel, M. G. Green's function and asymptotic behaviour of the solution of some oblique derivative problems not in divergence form. **88b:35046**
- Gasyrov, E. A. On the solvability of mixed problems for second-order parabolic equations in domains with curvilinear boundaries. (Russian) **88d:35090**
- Hassan, M. I. On the first mixed problem for a parabolic equation with right side in L^2_{loc} . **88b:35093**
- On the first mixed problem for a parabolic equation with right side in L^2_{loc} . **88b:35094**
- Hess, Peter An isoperimetric inequality for the principal eigenvalue of a periodic-parabolic problem. **88d:35091**
- Kumynin, V. L. On an estimate for the rate of convergence of the solutions of parabolic equations with a weakly converging right-hand side. (Russian) **88b:35047**
- Lavrenyuk, S. P. Nonlocal problems for second-order parabolic equations. (Russian. English summary) **88b:35088**
- Mamedov, I. T. See Alkhutov, Yu. A., **88i:35068**
- Mossino, J. (with Rakotoson, Jean-Michel) Isoperimetric inequalities in parabolic equations. **88j:35071**
- Nguyễn Hoàng See Doan Văn Ngự, **88m:35073**
- Ni, V. Kh. Boundary value problems for a system of equations of parabolic type in a bounded domain. (Russian) **88b:35089**
- Petrushka, I. M. Boundary and initial conditions in \mathcal{L}_p , $p > 1$, for solutions of parabolic equations. (Russian) **88a:35118**
- Proctor, G. See Chien, V., **88m:35072**
- Rakotoson, Jean-Michel See Mossino, J., **88j:35071**
- Rasulov, M. A. See Azlmov, E. Kh., **88f:35070**
- Salsa, Sandro See Fabes, Eugene B.; et al., **88d:35089** and **88i:35069**
- Schmidt, E. J. P. Georg On the total—and strict total—positivity of the kernels associated with parabolic initial-boundary value problems. **88g:35099**
- Shapoval, N. N. The first boundary value problem for a parabolic equation with arguments that reverse their roles. II. (Bulgarian. English and Russian summaries) **88i:35070a**
- The second boundary value problem for a parabolic equation with arguments that reverse their roles. I. (Bulgarian. English and Russian summaries) **88i:35070b**

- The second boundary value problem for a parabolic equation with arguments that reverse their roles. II. (Bulgarian. English and Russian summaries) **88i:35070c**
- Yamada, Yoshio (with Yotsutani, Shoji) Note on chemical interfacial reaction models. **88i:35071**
- Yotsutani, Shoji See Yamada, Yoshio, **88i:35071**
- Yurchuk, N. I. A mixed problem with an integral condition for some parabolic equations. (Russian) **88g:35100**

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- Bledtner, J. (with Hansen, Wolfhard) ★ Potential theory. **88b:31002**
- Cannon, John R. (with Lin, Yanping) Determination of a source term in a linear parabolic differential equation with mixed boundary conditions. **88b:35210**
- (with Lin, Yanping) On the stability of the temperature distribution in a composite heat conductor with mixed-boundary value conditions. (Italian summary) **88b:80008**
- Chen, Ya Zhe On finite diffusing speed for uniformly degenerate quasilinear parabolic equations. **88a:35131b**
- Dong, Guang Chang The first boundary value problem for solutions of degenerate quasilinear parabolic equations. **88a:35131a**
- Frank, Léonid S. (with Wendt, W. D.) Elliptic and parabolic singular perturbations in the kinetic theory of enzymes. **88a:35025**
- Gafarova, A. F. Local solvability of certain inverse problems for parabolic equations. (Russian) **88b:35212**
- Hansen, Wolfhard See Bledtner, J., **88b:31002**
- Kawohl, B. Remarks on a paper by W. A. Day on a maximum principle under nonlocal boundary conditions. **88a:35034**
- Klaus, Martin (with van der Mee, C. V. M.; Protopenescu, V.) Half-range solutions of indefinite Sturm-Liouville problems. **88c:35042**
- Lin, Yanping See Cannon, John R., **88b:80008** and **88b:35210**
- Lokutsievskii, O. V. See Lokutsievskii, V. O., **88b:65116**
- Lokutsievskii, V. O. (with Lokutsievskii, O. V.) Numerical solution of boundary value problems for equations of parabolic type. (Russian) **88b:65116**
- Mambetov, R. Investigation of the almost everywhere time-periodic solution of a multidimensional boundary value problem for a class of second-order parabolic equations with a periodic coefficient and a nonlinear operator right-hand side. (Russian) (See **88j:00010**)
- van der Mee, C. V. M. See Klaus, Martin; et al., **88c:35042**
- Ortega, Luis A. On periodic solutions of the Dirichlet problem for parabolic equations. (Spanish. English summary) **88a:35021**
- Pham Lôi Vũ Determination of a parabolic equation from boundary conditions. (Russian) **88d:35190**
- Prilepko, A. I. (with Solov'ev, V. V.) On the solvability of inverse boundary value problems for the determination of the coefficient preceding the lower derivative in a parabolic equation. (Russian) **88g:35200**
- Protopenescu, V. See Klaus, Martin; et al., **88c:35042**
- Satybaliev, O. On the nuclearity of the resolvent of a parabolic operator. (Russian) **88d:47061**
- Solov'ev, V. V. See Prilepko, A. I., **88g:35200**
- Wang, Sheng Jun See Xie, Chun Hong, **88a:35032**
- Wendt, W. D. See Frank, Léonid S., **88a:35025**
- Wu, Jang Mei On heat capacity and parabolic measure. **88b:31010**
- Xie, Chun Hong (with Wang, Sheng Jun) Blow-up of quasilinear parabolic equations and systems. (Chinese. English summary) **88a:35032**
- Yakubov, S. Unique solvability of a boundary value problem with an unknown boundary for an equation of parabolic type. (Russian) **88b:35217**
- Zhaurov, Yu. V. Fluctuations in an averaging scheme for parabolic boundary value problems. (Russian) **88a:35231**

35K22 Evolution equations (any order in the spatial derivatives)

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- Babin, A. V. (with Vishik, M. I.) On unstable sets of evolution equations in a neighborhood of critical points of a stationary curve. (Russian) **88j:35072**
- Vishik, M. I. See Babin, A. V., **88j:35072**

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- Acquistapace, Paolo (with Terreni, Brunello) Linear parabolic equations in Banach spaces with variable domains but constant interpolation spaces. **88a:34084**
- Alart, P. Convergence d'un schéma de discrétisation implicite pour une équation d'évolution multivoque via une régularisation. [Convergence of an implicit discretization scheme for a multivalued evolution equation via a regularization] **88m:35149**
- Araktsyan, B. G. Asymptotically almost periodic solutions of some linear evolution equations. (Russian) **88g:34097**
- El-Fiky, Ahmed On well-posedness of the Cauchy problem for p -parabolic systems. **88b:35085**
- Epstein, Charles L. (with Weinstein, Michael I.) A stable manifold theorem for the curve shortening equation. **88c:53003**
- Hong, Nai Duan On weak solutions to some classes of nonlinear evolution equations. (Chinese. English summary) **88d:35171**
- Kurbyko, I. F. The Cauchy problem for evolution equations with an infinite-dimensional pseudodifferential operator. (Russian) **88b:35108**
- Neronov, V. S. Optimal control of processes described by evolution equations. (Russian) (See **88j:00018**)
- Pivovarov, N. I. Solvable boundary value problems for an operator-differential equation of parabolic type. (Russian) **88c:34106**
- Rogovchenko, Yu. V. (with Trofimchuk, S. I.) Periodic solutions of weakly nonlinear partial differential equations of parabolic type with impulse action and their stability. (Russian) **88b:35016**
- Terreni, Brunello See Acquistapace, Paolo, **88a:34084**

- Trenogin, V. A. Differential equations in a Banach space that are encountered in synergetics. (Russian) **88k:34059**
- Trofimchuk, S. I. See Rogovchenko, Yu. V., **88e:35016**
- Vlasenko, L. A. Construction of solutions of some classes of the equations $Au'(t) + Bu(t) = f(t)$. (Russian) **88i:34119**
- Weinstein, Michael I. See Epstein, Charles L., **88e:53003**

35K25 Higher-order equations, general

- Geidarov, A. G. On representations and asymptotic estimates of fundamental solutions of some parabolic operators. (Russian. English and Azerbaijani summaries) **88f:35059**
- Glushak, A. V. (with Shmulevich, S. D.) Some well-posed problems for higher-order parabolic equations that degenerate with respect to the time variable. (Russian) **88b:35095**
- Kamin, Shoshana Asymptotic properties of solutions of the porous medium equation with absorption. **88a:35119**
- López, Martín A priori estimates of Schauder type in anisotropic Hölder norms for the solutions of parabolic equations. (Russian) (See **88e:34003**)
- Shmulevich, S. D. See Glushak, A. V., **88b:35095**

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- Giuga, Salvatore On an optimal control problem with respect to a parabolic operator of order $2m$. (Italian. English summary) **88g:93077**
- Iwasaki, Chisato Construction of fundamental solutions of parabolic equations with pseudodifferential operators, and \square_p . (Japanese) **88j:35038**

35K30 Higher-order equations, initial value problems

- Constantin, Peter (with Saut, J.-C.) Effets régularisants locaux pour des équations dispersives générales. (English summary) [Local smoothing properties of general dispersive equations] **88d:35092**
- El-Fiky, Ahmed On well-posedness of the Cauchy problem for p -parabolic systems. **88k:35085**
- Fraguela Collar, Andrés Perturbation of a polyharmonic operator with delta-like potentials. (Russian) **88e:35090**
- Galaktionov, V. A. (with Kurdyumov, S. P.; Posashkov, S. A.; Samarskii, A. A.) A nonlinear elliptic problem with a complex spectrum of solutions. (Russian) **88a:35120**
- Kurdyumov, S. P. See Galaktionov, V. A.; et al., **88a:35120**
- López, Martín On the local solvability of the Cauchy problem for nonlinear parabolic equations. (Spanish. English summary) **88j:35073**
- Nishioka, Kunio Large time behavior of a solution of a parabolic equation. **88e:35091**
- Posashkov, S. A. See Galaktionov, V. A.; et al., **88a:35120**
- Samarskii, A. A. See Galaktionov, V. A.; et al., **88a:35120**
- Saut, J.-C. See Constantin, Peter, **88d:35092**

35K35 Higher-order equations, boundary value problems

- Abdinazarov, S. (with Zhuraev, B.) On a boundary value problem for a fourth-order parabolic equation. (Russian) (Not in MR)
- Aleksandra, I. N. Asymptotic behavior with respect to time of the solution of the Riquier problem for equations of parabolic type. (Russian) **88j:35074**
- Baderko, E. A. On an "almost" model boundary value problem for a higher-order parabolic equation. (Russian) **88f:35060**
- Byszewski, Ludwik Uniqueness criteria for the solutions of the linear iterated problems of parabolic type in arbitrary set. **88j:35075**
- Da Silva, Marcos A. Problèmes de transmission paraboliques généralisés. (English and Portuguese summaries) [Generalized parabolic transmission problems] **88d:35093**
- Dubrovskaya, A. P. See Eidel'man, S. D., **88e:35092**
- Dzhuraev, T. D. (with Mamazhanov, M.) Some boundary value problems for third-order equations containing a parabolic operator with lowest terms. (Russian) **88d:35094**
- Eidel'man, S. D. (with Dubrovskaya, A. P.) Some parabolic problems with nonlocal boundary conditions. (Russian) **88e:35092**
- Gershkov, A. I. Construction of a solution of a parabolic boundary value problem with almost periodic coefficients. (Russian) **88f:35061**
- Lopushanskaya, G. P. Solution by means of the Green matrix of a parabolic boundary value problem in a space of generalized functions. (Russian) **88e:35093**
- Mamazhanov, M. See Dzhuraev, T. D., **88d:35094**
- Musialek, Jan On a certain problem for some class of parabolic differential equations of the fourth order. **88j:35076**
- Primakova, S. I. See Timofeeva, G. E.; et al., **(88j:34002)**
- Rektorsky, Karel Numerical and theoretical treating of evolution problems by the method of discretization in time. **88f:35062**
- Sobolevskii, P. E. See Timofeeva, G. E.; et al., **(88j:34002)**
- Timofeeva, G. E. (with Sobolevskii, P. E.; Primakova, S. I.) Positivity of higher-order elliptic difference operators in Hölder norms. (Russian) (See **88j:34002**)
- Zhitarsku, N. V. A theorem on the complete set of isomorphisms in the L_2 -theory of model initial parabolic boundary value problems. (Russian) **88e:35094**
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- Korovinskaya, I. G. See Bykov, Ya. V.; et al., **88g:35015**
- Kul'taev, T. Ch. See Bykov, Ya. V.; et al., **88g:35015**
- Nambu, Takao On stabilization of partial differential equations of parabolic type: boundary observation and feedback. **88a:93057**

35K40 Systems, general

- Janušauskas, Algimantas The formulation of well-posed boundary value problems for a class of systems of evolution type. (Russian) **88j:35077**

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- Eidel'man, Yu. S. An inverse problem for a parabolic system of differential equations. (Russian) **88b:35110**
- Mercx, Christian Identification of a spatially varying parameter in a time-periodic parabolic system. **88k:93036**
- Watson, N. A. On the representation of solutions of the heat equation and weakly coupled parabolic systems. **88d:35086**

35K45 Systems, initial value problems

- Gorodetskii, V. V. Stabilization of solutions of the Cauchy problem for systems that are parabolic in the sense of Petrovskii in classes of infinite-order generalized functions. (Russian) **88f:35063**
- On the localization of solutions of the Cauchy problem for general parabolic systems in classes of generalized functions. (Russian) **88g:35101**
- On the localization and stabilization of the solutions of the Cauchy problem for parabolic systems in classes of generalized functions. (Russian) **88j:35078**

35K50 Systems, boundary value problems

- Deuring, Paul An initial-boundary value problem for a certain density-dependent diffusion system. **88e:35095**
- Franchi, Franca (with Morro, A.) Domain of influence in nonlinear heat conduction. **88k:35086**
- Gorshkov, A. I. An extension of Lyapunov's reduction principle to boundary value problems of parabolic equations. (Russian) **88f:35064**
- Morro, A. See Franchi, Franca, **88k:35086**
- Russo, Remigio Uniqueness theorems for a partial differential system of parabolic type in unbounded domains. **88j:35079**
- Ugowski, Henryk On the second Fourier problem for an infinite system of semilinear parabolic equations in a Banach space. **88k:35087**
- Zhitarsku, N. V. On correct solvability in generalized functions of a class of nonlocal parabolic boundary value problems and conjugation problems. (Russian) **88i:35072**

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- Li, De Ning The general initial-boundary value problems for linear hyperbolic-parabolic coupled system. **88f:35105**
- Matin, M. A. An estimate for the Green's function of the general elliptic boundary value problem with discontinuous coefficients. **88f:35048**
- Sumin, V. I. Stability of the existence of a global solution to the first boundary value problem for a controllable parabolic equation. (Russian) **88a:93052**
- Wieser, Wilfried On parabolic systems with variational structure. **88g:35114**

35K55 Nonlinear equations and systems

- Akhmatov, I. Sh. (with Gazizov, R. K.; Ibragimov, N. Kh.) Quasilinear symmetries of equations of nonlinear heat-conduction type. (Russian) **88j:35080**
- Alikakos, Nicholas D. (with Phillips, Daniel) A remark on positively invariant regions for parabolic systems with an application arising in superconductivity. **88j:35081**
- Alt, Wolfgang See Greenberg, J. M., **88f:35065**
- Amann, Herbert Quasilinear parabolic systems. (See **88d:35007**)
- An, Lian Jun The infiltration problem with large constant surface flux in partially saturated porous media. **88k:35088**
- Baras, Pierre (with Kersner, Robert) Local and global solvability of a class of semilinear parabolic equations. **88k:35089**
- Bellout, Hamid A criterion for blow-up of solutions to semilinear heat equations. **88m:35074**
- di Benedetto, E. Intrinsic Harnack type inequalities for solutions of certain degenerate parabolic equations. **88j:35082**
- Bernis, F. Finite speed of propagation and asymptotic rates for some nonlinear higher order parabolic equations with absorption. **88e:35096**
- Bertsch, M. (with Gurtin, Morton E.; Hilhorst, D.) On interacting populations that disperse to avoid crowding: the case of equal dispersal velocities. **88d:35095**
- Bodnar, I. V. (with Fokht, A. S.; Eliseev, V. I.) Solution of a problem of Hodgkin-Huxley type on finite domains. (Russian) **88b:35096**
- Bohm, Michael A note on iteration for pseudoparabolic equations of fissured media type. **88e:35097**
- Bokalo, N. M. Uniqueness of the solution of a problem without initial conditions for nonlinear parabolic equations. (Russian) **88a:35121**
- Brown, K. J. Nontrivial solutions of predator-prey systems with small diffusion. **88i:35073**
- Brown, Peter N. Decay to uniform states in food webs. **88b:35097**
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- Chen, Deng Yuan (with Li, Yi Shen) The transformation operator V of nonlinear evolution equation. **88k:35090**
- Chistyakov, V. V. Some qualitative properties of solutions of a second-order nondivergence semilinear parabolic equation. (Russian) **88i:35074**
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- (with Luckhaus, Stephan) A degenerate diffusion problem not in divergence form. **88k:35091**
- Daněček, J. See Stará, J.; et al., **88f:35071**

- Danilyuk, G. I. (with Skrypnik, I. V.) A priori estimates for generalized solutions of higher-order nonlinear parabolic systems. (Russian) **88m:35076**
- Dorodnitsyn, V. A. See Galaktionov, V. A.; et al., **88i:35076**
- van Duyn, C. J. (with Hilhorst, D.) On a doubly nonlinear diffusion equation in hydrology. **88d:35096**
- Dzhuravova, R. M. Asymptotic behavior with respect to the small parameter of the solution of a boundary value problem for a nonlinear differential equation of parabolic type. (Russian. English and Azerbaijani summaries) **88i:35075**
- Elenin, G. G. See Galaktionov, V. A.; et al., **88i:35076**
- Eliseev, V. I. See Bodnar, I. V.; et al., **88b:35096**
- Filo, Ján On solutions of a perturbed fast diffusion equation. (Russian and Slovak summaries) **88j:35084**
- Fleischmann, K. A nonlinear heat equation with generalized forcing term. (See **88j:00018**)
- Fokht, A. S. See Bodnar, I. V.; et al., **88b:35096**
- Frank, Léonid S. On a singular perturbation in the kinetic theory of enzymes and the corresponding nonlinear time optimal control. **88c:35074**
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- Galaktionov, V. A. (with Dorodnitsyn, V. A.; Elenin, G. G.; Kurdyumov, S. P.; Samarskii, A. A.) A quasilinear equation of heat conduction with a source: peaking, localization, symmetry, exact solutions, asymptotic behavior, structures. (Russian) **88i:35076**
(with Posashkov, S. A.) Asymptotics of the process of nonlinear heat conduction with absorption in the case of a critical value of the parameter. (Russian. English summary) **88a:35122**
(with Posashkov, S. A.) An approach to the problem of the localization of unbounded solutions of quasilinear parabolic equations. (Russian. English summary) **88i:35092**
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- García-Huidobro, M. The solution of a nonlinear diffusion equation. **88b:35098**
- Gazizov, R. K. See Akhatov, I. Sh.; et al., **88j:35080**
- Gerlach, Wolfgang (with von Wolfersdorf, L.) On a nonlinear nonlocal diffusion equation of Satsuma and Mimura. **88i:35093**
- Glushchenko, O. B. See Taraborkin, L. A., **88m:35078**
- Gomes, Sônia M. A nonlinear boundary value problem and applications to a diffusion equation with radial symmetries. (Portuguese summary) **88m:35077**
- Greenberg, J. M. (with Alt, Wolfgang) Stability results for a diffusion equation with functional drift approximating a chemotaxis model. **88f:35065**
- Gurtin, Morton E. See Bertsch, M.; et al., **88d:35095**
- Hale, Jack K. (with Rocha, Carlos) Varying boundary conditions with large diffusivity. **88i:35077**
- Herrero, M. A. Temperature fronts in one-dimensional media. (See **88d:35007**)
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- Hilhorst, D. See Bertsch, M.; et al., **88d:35095** and van Duyn, C. J., **88d:35096**
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- Höllig, Klaus See Friedman, Avner, **88d:35097**
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- Kalafati, Yu. D. The theory of contrast dissipative structures. (Russian) (Not in MR)
- Kalashnikov, A. S. On some nonlinear systems that describe the dynamics of competing biological species. (Russian) **88i:35078**
- Kamin, Shoshana (with Peletier, L. A.) Large time behaviour of solutions of the porous media equation with absorption. **88a:35125**
- Kawohl, B. Qualitative properties of solutions to semilinear heat equations. **88c:35075**
- Kerner, Robert On some properties of generalized solutions of an equation of nonstationary filtration with absorption. (Russian) (See **88c:34003**)
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- Kobayashi, Yoshikazu An algorithm for solving $u_t = \Delta \psi(u)$. (See **88j:00018**)
An operator theoretic method for solving $u_t = \Delta \psi(u)$. **88d:35098**
- Kozono, Hideo On a decay property of weak solution for semilinear evolution equation of parabolic type and its applications. **88b:35094**
- Kur'ch, R. N. (with Pankov, A. A.) G-convergence of monotone parabolic operators. (Russian. English summary) **88f:35067**
- Kurdyumov, S. P. (with Posashkov, S. A.; Samarskii, A. A.; Sinilo, A. V.) Unsteady heat structures in a nonlinear medium with heat sinks. (Russian) **88c:35076**
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- Lacey, A. A. Global blow-up of a nonlinear heat equation. **88b:35049**
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- Ladyzhenskaya, O. A. Minimal global B -attractors of semigroups and of initial-boundary value problems for nonlinear partial differential equations. (Russian) **88g:35102**
- Laptev, G. I. Second-order quasilinear parabolic equations with integral coefficients. (Russian) **88d:35099**
- Li, Yi Shen See Chen, Deng Yuan, **88k:35090**
- Lortz, Dietrich See Stredulinsky, E. W.; et al., **88i:35104**
- Luckhaus, Stephan See Dal Passo, R., **88b:35048** and **88k:35091**
- Magnaradze, L. G. A note on the global solution of the Cauchy problem for the quasilinear Burgers equation by the Hopf-Cole method. (Russian. English and Georgian summaries) **88c:35100**
- Maiboroda, I. N. On the construction of lower and upper functions for a boundary value problem of a system of second-order nonlinear parabolic equations. (Russian) **88f:35068**
- Maksimova, N. O. On the behavior of the solutions of a class of nonlinear parabolic equations in unbounded domains with respect to t . (Russian) **88k:35095**
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- Matano, H. Strong comparison principle in nonlinear parabolic equations. **88i:35079**
- Maugeri, Antonino See Marino, Mario, **88d:35100** and **88f:35069**
- Meyer-Spasche, Rita See Stredulinsky, E. W.; et al., **88g:35104**
- Mimura, Masayasu See Nagai, Toshitaka, **88g:35103** and Satsuma, Junkichi, **88i:35081**
- Mirenghi, Elvira Equilibrium solutions of a semilinear reaction-diffusion system. **88c:35077**
- Nagai, Toshitaka (with Mimura, Masayasu) Asymptotic behavior of the interfaces to a nonlinear degenerate diffusion equation in population dynamics. **88g:35103**
- Nania, Luciana Asymptotic growth for nonconcave pseudosolutions of the time-dependent equation of prescribed mean curvature. **88b:35101**
- Novikov, Vyacheslav Aleksandrovich (with Shvab, I. V.) Nonuniqueness and "stability" of certain solutions of nonlinear parabolic equations with a changing direction of parabolicity. (Russian) **88d:35101**
- Pankov, A. A. See Kur'ch, R. N., **88f:35067**
- Pavlova, M. F. Investigation of the equations of nonstationary nonlinear filtration. (Russian) **88k:35096**
- Peletier, L. A. (with Tesi, Alberto) Global bifurcation and attractivity of stationary solutions of a degenerate diffusion equation. **88a:35126**
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- Phillips, Daniel See Alikakos, Nicholas D., **88j:35081**
- Pierre, M. Nonlinear fast diffusion with measures as data. **88f:35070**
- Pimbley, George H. Quasilinear systems, semigroups, and nonlinear coupling. **88k:35097**
- Ponce, Gustavo The Cauchy problem for nonlinear evolution equations. (Spanish) **88k:35098**
- Posashkov, S. A. See Galaktionov, V. A., **88a:35122**; Kurdyumov, S. P.; et al., **88c:35076** and Galaktionov, V. A., **88i:35092**
- Pozio, Maria Assunta (with Tesi, Alberto) Degenerate parabolic problems in population dynamics. **88b:35099**
- Prue, Howard (with Sanders, Richard) On travelling-wave solutions to systems of conservation laws with singular viscosity. **88i:35080**
- Pukhnachev, V. V. Evolution equations and Lagrangian coordinates. (Russian) **88k:35099a**
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- Redlinger, Reinhard Orbital compactness and asymptotic behaviour of nonlinear parabolic systems with functionals. **88c:35102**
- Rocha, Carlos See Hale, Jack K., **88i:35077**
- Rykov, Yu. G. The behavior, with increasing time, of the generalized solutions of degenerate parabolic equations with nonisotropic nonlinearities not of power type. (Russian) (See **88c:34003**)
- Samarskii, A. A. See Galaktionov, V. A.; et al., **88a:35123**; Kurdyumov, S. P.; et al., **88c:35076** and Galaktionov, V. A.; et al., **88i:35076**
- Sanders, Richard See Prue, Howard, **88i:35080**
- Satsuma, Junkichi (with Mimura, Masayasu) Stability properties of spatially periodic solutions for nonlinear diffusion equations with a singular integral term. **88i:35081**
- Senba, Takasi On the support of solutions of $U_t = \Delta U^m + g$. (Japanese) (See **88f:35008**)
- Shvab, I. V. See Novikov, Vyacheslav Aleksandrovich, **88d:35101**
- Sinilo, A. V. See Kurdyumov, S. P.; et al., **88c:35076**
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- Smoller, Joel See Hoff, David, **88c:35099**
- Stará, J. (with Daněček, J.; John, O.) Liouville type condition and the interior regularity of quasilinear parabolic system (the case of BMO-solutions). **88f:35071**
- Stredulinsky, E. W. (with Meyer-Spasche, Rita; Lortz, Dietrich) Asymptotic behavior of solutions of certain parabolic problems with space and time dependent coefficients. **88g:35104**
- Taraborkin, L. A. (with Glushchenko, O. B.) Nonlinear problems for parabolic equations with mixed conjugation and boundary conditions. **88m:35078**
- Tasheva, B. Approximate solution of coupled partial differential equations of the first order in time. (See **88j:00018**)
- Termon, David Infinitely many traveling wave solutions of a gradient system. **88i:35082**
- Tesi, Alberto See Peletier, L. A., **88a:35126**; Pozio, Maria Assunta, **88b:35099** and Peletier, L. A., **88h:35051**
- Troy, W. C. The existence of bounded solutions of a semilinear heat equation. **88a:35127**
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- Vázquez, Juan L. Convexity properties of the solutions of nonlinear heat equations. **88k:35100**
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- Visintin, A. Partial differential equations with hysteresis. **88i:35083**
- Volpert, A. I. Application of functionals to the investigation of traveling waves. (Russian) **88m:35079**
- Vybornova, I. I. The stabilization of solutions to the Cauchy problem for a parabolic equation. (Russian) (See **88c:34003**)
- von Wahl, Wolf On the Cahn-Hilliard equation $u' + \Delta^2 u - \Delta f(u) = 0$. **88b:35100**
- Wieser, Wilfried Parabolic Q -minima and minimal solutions to variational flow. **88j:35085**
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- Yanagida, Eiji Branching of double pulse solutions from single pulse solutions in nerve axon equations. **88c:35078**

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- Bogaenko, K. I. See Boichuk, M. V., 88b:35040
- Boichuk, M. V. (with Bogaenko, K. I.) Estimation with respect to the order of convergence of function series in the solution of boundary value problems for second-order quasilinear parabolic equations. (Russian) 88b:35040
- Bourgoin, Jean-Pierre L'équation de la chaleur associée à la courbure de Ricci. [The heat equation associated with Ricci curvature] 88k:53061
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- Lundberg, Lars-Erik Lorentz invariant quantum theory. **88d:81136**
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- Klincsik, M. Asymptotic behavior of dissipative hyperbolic equation with inhomogeneous boundary conditions. (See **88k:34002**)
- Kochubei, A. N. Stabilization of solutions of dissipative hyperbolic equations. (Russian) **88a:93049**
- Kremer, Dieter F. An existence and uniqueness theorem for wave equations with scalar nonlinearities. (German summary) **88d:34081**
- Kuliev, G. F. The problem of boundary control for linear hyperbolic equations. (Russian) (See **88k:35004**)
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- Shamilov, A. Kh. On the solvability of a special problem with a free boundary for elliptic equations. (Russian) (See **88k:35004**)
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- Yoshida, Norio Oscillation properties of solutions of characteristic initial value problems. (See **88k:34002**)

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- Dalmasso, Robert Un résultat sur les fonctions de classe $C^{1,\alpha}$ et application au problème de Cauchy. (English summary) [A result on $C^{1,\alpha}$ -functions and application to the Cauchy problem] **88a:35136**
- Denisov, V. N. On the stabilization of means with respect to time for the difference of solutions of the Cauchy problem for hyperbolic equations. (Russian) **88h:35060**
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- Hegedüs, J. Estimates for the solution of the Cauchy problem for a hyperbolic equation with a large parameter. (Russian) (See **88j:00018**)
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- Kreith, K. Uniform zeros for beaded strings. **88f:35087**
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- Oganesyan, A. O. Construction of the parametrix of the Cauchy problem with weight for second-order hyperbolic equations with unbounded coefficients. (Russian. English and Armenian summaries) **88c:35114**
- Construction of the parametrix of the initial-value problem for a class of hyperbolic equations with unbounded coefficients. (Russian. Armenian summary) **88g:35120**
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- Sogge, Christopher D. On the almost everywhere convergence to L^p data for higher order hyperbolic operators. **88h:35062**
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- Ishmukhametov, A. Z. Approximation of second-order hyperbolic operator-differential equations. (Russian) **88j:34124**
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- Yagi, Atsushi Applications of the purely imaginary powers of operators in Hilbert spaces. **88g:47087**

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- Anar, I. Ethem Solutions of boundary value problems for a class of hyperbolic equations with singular coefficients. (Turkish summary) **88b:35063**
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- Haraux, A. Recent results on semilinear wave equations with dissipation. **88c:35091**
- Higdon, Robert L. Initial-boundary value problems for linear hyperbolic systems. **88a:35138**
- Iranipara, N. Qualitative behaviour of solutions of the Goursat problem for hyperbolic differential equations. **88g:35122**
- Kapitonov, B. V. Decrease in the solution of the exterior boundary value problem for a system of elasticity theory. (Russian) **88b:35117**
- Kapestin, N. Yu. The Goursat problem with boundary functions in the class L_2 . (Russian) **88b:35064**
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- Kowalski, T. (with Sadkowski, W.) Existence of global classical solutions for wave equations with the third type of boundary conditions. (See **88j:00018**)
- Lasiecka, Irena (with Lions, Jacques-Louis, Triggiani, R.) Nonhomogeneous boundary value problems for second order hyperbolic operators. **88c:35092**
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- Taniguchi, Masaru Correction to: "Mixed problem for weakly hyperbolic equations of second order with degenerate first order boundary condition" [Tokyo J. Math. 7 (1984), no. 1, 61-98; MR **86b:35140**]. **88a:35139**
- Teodoru, Georgeta Le problème de Darboux pour une équation aux dérivées partielles multivoque. [The Darboux problem for a multivalued partial differential equation] **88a:35140**
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- Vragov, V. N. On initial and boundary value problems of second order hyperbolic equations. (Russian) (See **88k:34002**)
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- Akulenko, L. D. (with Shamaev, A. S.) Approximate solution of some perturbed boundary value problems. **88m:34009**
- Carbonaro, Bruno Some examples of nonuniqueness of solutions to the equation of linear elastodynamics. **88d:73020**
- Cazenave, T. (with Haraux, A.) Oscillatory phenomena associated to semilinear wave equations in one spatial dimension. **88a:35157**
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- Lasiecka, Irena (with Triggiani, R.) Finite rank, relatively bounded perturbations of semigroups generators. I. Well-posedness and boundary feedback hyperbolic dynamics. **88c:47081a**
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- Vasil'ev, V. A. Sharpness and the local Petrovskii condition for strictly hyperbolic operators with constant coefficients. (Russian) **88a:58193**
- Yamada, Haruki Sharpness of some distributions associated with A_m -singularity. **88i:58124**

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- Baltag, Yu. I. L_p -estimates for the solution of the Cauchy problem for a high-order one-dimensional hyperbolic equation with constant coefficients. (Russian) **88g:35124**
- Bryukhanov, V. A. The Cauchy problem for some classes of hyperbolic equations with characteristics of variable multiplicity. (Russian) **88j:35101**
- Itoh, Shigeharu (with Uryu, Hitoshi) Conditions for well-posedness in Gevrey classes of the Cauchy problems for Fuchsian hyperbolic operators. II. **88b:35115**
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- Rothberg, Ya. A. Solvability of the Cauchy problem for hyperbolic equations in a complete scale of spaces of Sobolev type. (Russian) **88i:35096**
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- Akhiev, S. S. Correct solvability of a nonlocal problem for a third-order hyperbolic equation. (Russian) (See **88b:35008**)
- Borzymowski, Andrzej (with Sadowski, Antoni) A Goursat problem for Mangeron's polyvibrating equation in \mathbb{R}^3 . **88b:35116**
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- Narazaki, Takashi Global classical solutions of semilinear evolution equations. **88a:35143**
- Pletner, Yu. D. See Gabov, S. A., **88b:35065** and **88b:35066**
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- Kubo, Akisato Mixed problems for singular and degenerate hyperbolic equations. **88j:35114**
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- Russell, David L. Mathematical models for the elastic beam and their control-theoretic implications. **88b:93030**

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- Bachelot, Alain Équipartition de l'énergie pour les systèmes hyperboliques et formes compatibles. (English summary) [Uniform energy distribution for hyperbolic systems and compatible forms] **88a:35144**
- Cercignani, Carlo (with Shinbrot, Marvin) Global existence for some discrete velocity models. **88d:35118**
- Georgiev, V. Disappearing solutions for dissipative hyperbolic systems of constant multiplicity. **88a:35145**

- Iskenderov, N. Sh. The scattering problem for a system of first-order hyperbolic equations on the semiaxis with given scattered waves. (Russian) **88c:35093**
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- Cooper, Jeffery M. (with Strauss, Walter Alexander) Time-periodic scattering of symmetric hyperbolic systems. **88c:35123**
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- Fokas, A. S. Inverse scattering and integrability in multidimensions. **88a:35203**
- Georgiev, V. (with Stefanov, P.) Existence of the scattering operator for dissipative hyperbolic systems with variable multiplicity. (See **88j:00018**)
- Iwashita, Hirokazu On the characterization of the ranges of wave operators for symmetric hyperbolic systems of first order. **88g:35153**
- Kalyakin, L. A. Asymptotic integration of a perturbed hyperbolic system of equations in the class of conditionally periodic functions. (Russian) **88c:35026**
- Pleshchinskaya, I. E. The equivalence of some classes of first-order elliptic and hyperbolic systems and second-order partial differential equations. (Russian) **88c:35050**
- Stefanov, P. See Georgiev, V., **(88j:00018)**
- Strauss, Walter Alexander See Cooper, Jeffery M., **88c:35123**

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- Métivier, Guy The Cauchy problem for semilinear hyperbolic systems with discontinuous data. **88a:35146**
- Morimoto, Yoshinori (with Taniguchi, Kazuo) Propagation of wave front sets of solutions of the Cauchy problem for hyperbolic equations in Gevrey classes. **88d:35120**
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- Simon, Jacques C. H. See Flato, M.; et al., **88k:35117**
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- Tarama, Shigeo Sur le problème de Cauchy pour les systèmes hyperboliques à caractéristiques doubles dans les classes de Gevrey. (English summary) [The Cauchy problem for hyperbolic systems with double characteristics in Gevrey classes] **88m:35094**
- Vallant, J. Systèmes hyperboliques de rang variable. [Hyperbolic systems of variable rank] **88k:35118**
- Conditions d'hyperbolicité pour les systèmes de rang variable. (English summary) [Hyperbolicity conditions for systems of partial differential equations with variable rank] **88d:35121**
- Wakabayashi, Seichiro Singularities of solutions of the Cauchy problem for hyperbolic systems in Gevrey classes. **88h:35067**
- Yamahara, Hideo On the strongly hyperbolic systems. **88j:35104**

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- Ahrapetyan, R. G. Construction of weakly commuting continuations of operators and the problem of the symmetrization of hyperbolic equations. (Russian) **88f:35089**
- Duchon, Jean (with Robert, Raoul) Élargissement diphasique d'une nappe tourbillonnaire en dynamique du fluide parfait incompressible. (English summary) [Two-phase widening of a vortex sheet in incompressible perfect fluid dynamics] **88k:35161**
- Giannone, Angela Errata corrigé: "An estimate for the convergence of an asymptotic wave" [Boll. Un. Mat. Ital. Suppl. 1986, no. 5, 229–244; MR 87m:35037]. **88g:35041**
- Gordin, Daniel Problème de Cauchy faiblement hyperbolique. II. [The weakly hyperbolic Cauchy problem. II] **88h:35061**
- Kajitani, Kunihiko Global real analytic solutions of the Cauchy problem for linear partial differential equations. **88d:35013**
- Kalyakin, L. A. Asymptotic decay of a one-dimensional wave packet in a nonlinear dispersive medium. **88h:35069**
- Picard, Rainer (with Seidler, Stefan) On asymptotic equipartition of energy. **88g:47018**
- Robert, Raoul See Duchon, Jean, **88k:35161**
- Seidler, Stefan See Picard, Rainer, **88g:47018**
- Werner, Peter Aperiodic electromagnetic waves in cylindrical waveguides. **88c:35025**

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- Li, Da Qian (with Yu, Wen Ci) The problem of the existence and uniqueness of centered wave solutions for quasilinear hyperbolic systems. (Chinese) **88c:35117**
- Lastman, Livia The time evolution of spectral discretizations of hyperbolic systems. **88a:35147**
- Maistrenko, Yu. L. See Sharkovskii, A. N., **88b:35123**
- Sharkovskii, A. N. (with Maistrenko, Yu. L.) Turbulence and simple hyperbolic systems. **88b:35123**
- Smith, W. V. Strongly propagative systems, generalized nonselfadjoint wave equations and their steady-state solutions. **88c:35119**
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- Abdell, K. S. A uniqueness theorem and estimation of the stability of the solution of an inverse problem for a first-order hyperbolic system. (Russian) **88c:35148**
- Li, De Ning The general initial-boundary value problems for linear hyperbolic-parabolic coupled system. **88f:35105**

- Maistrenko, Yu. L. On the reduction of nonlinear boundary value problems for hyperbolic systems to difference and differential-difference equations. (Russian) **88a:35149**

35L55 Higher-order hyperbolic systems

- Li, Sheng Hong Existence and uniqueness of solutions to characteristic problems for systems of hyperbolic equations of the third kind. (Chinese. English summary) **88m:35095**
- Nishitani, Tatsuo Système involutif d'opérateurs effectivement hyperboliques. [Involutive system of effectively hyperbolic operators] **88k:35120**
- Shen, Wei Xi See Zheng, Song Mu, **(88c:34005)**
- Yakhno, V. G. Existence and uniqueness of the solution of the problem of determining all coefficients of a hyperbolic system of second-order equations. (Russian) **88a:35148**
- Zheng, Song Mu (with Shen, Wei Xi) Global solutions to the Cauchy problem of a class of quasilinear hyperbolic parabolic coupled systems. (See **88c:34005**)

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- Janušauskas, Algimantas The formulation of well-posed boundary value problems for a class of systems of evolution type. (Russian) **88j:35077**
- Kapitonov, B. V. Asymptotic behavior of the solutions of a boundary value problem for a system of elasticity theory with dissipative boundary conditions. (Russian) **88k:35024**
- On the behavior as $t \rightarrow \infty$ of the solutions of the exterior boundary value problem for a hyperbolic system. (Russian) **88k:35025**

35L60 First-order nonlinear equations and systems

- Cazzani Neri, Maria Grazia A mixed problem. (Italian) **88d:35122**
- Curó, C. (with Fusco, D.) On a class of quasilinear hyperbolic reducible systems allowing for special wave interactions. (Italian summary) **88h:35068**
- Demengel, Françoise (with Rauch, Jeffrey) Superposition d'ondes singulières. (English summary) [Linear superposition of singular waves] **88m:35096**
- Fusco, D. See Curó, C., **88h:35068**
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- Loginov, B. V. See Kuznetsov, A. O., (88k:34002)
- Lo Surdo, C. Global magnetofluidostatic fields (an unsolved PDE problem). 88e:76059
- MacCamy, R. C. Absorbing boundaries for viscoelasticity. 88c:73038
- Malek-Madani, Reza (with Smith, Penny D.) Regularity of local minimizers of an isotropic compressible hyperelastic material. 88a:49016
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- Margolis, Stephen B. See Booty, Michael R.; et al., 88j:80004
- Maslov, V. P. Ill posed Cauchy problems for ideal gas equations and their regularization. (See 88h:35005)
- Matkowsky, B. J. See Booty, Michael R.; et al., 88j:80004
- Mel'nikov, V. K. Interaction of a long wave with a short-wave packet. (Russian) 88a:35158
- Mikelic, A. (with Aganović, I.) Homogenization in a porous media under a nonhomogeneous boundary condition. (Italian summary) 88h:76051
- Morro, A. See Franchi, Franca, 88k:35086
- Mu, Mu The classical solution of a three-dimensional equilibrium model for numerical weather forecasting. (Chinese) (Not in MR)
- Mukhtarov, M. A. See Leznov, A. N., 88k:58056
- Novikov, S. P. Differential geometry and the averaging method for field-theoretic systems. (Russian) 88d:58038
- Pachpatte, B. G. On a nonlinear system of integro-differential equations arising in reactor dynamics. 88c:45011
- Payne, L. E. On stability and growth of solutions for classes of initial and boundary value problems. 88f:35013
- Perov, A. I. (with Glushko, E. G.) On the existence of positive periodic solutions of a problem arising in the study of a model of chemical catalysis. (Russian) 88i:80006
- Pimbley, George H. Quasilinear systems, semigroups, and nonlinear coupling. 88k:35097
- Pirkle, C. See Hagan, P. S.; et al., 88k:80015
- Pivovarchik, V. N. A boundary value problem connected with oscillations of an elastic rod with internal and external friction. (Russian) 88f:73034
- Pogorelov, N. V. Diagonalization and simultaneous symmetrization of matrices in stationary equations of gas dynamics. (Russian) 88h:76041
- Polishevskii, Dan On the existence and uniqueness of instationary convection in porous media. 88d:76056
- Potapov, A. B. Construction of two-dimensional eigenfunctions of a nonlinear medium. (Russian) 88a:35215
- Rogazinski, S. V. On an approach to the solution of the homogeneous Boltzmann equation. (Russian) 88g:76054
- Rostamian, R. See Hager, W. W., 88m:76058
- Samokhin, V. N. A system of equations for dilatant fluid boundary layers. (Russian) 88d:76009
- Shelukhin, V. V. Boundary value problems for equations of a barotropic viscous gas with nonnegative initial density. (Russian) 88h:76042
- Smagulov, Sh. See Kazhikhov, A. V., 88d:76065
- Smith, Penny D. See Malek-Madani, Reza, 88a:49016
- Smith, W. V. Strongly propagative systems, generalized nonselfadjoint wave equations and their steady-state solutions. 88k:35119
- Varlamov, V. V. On the fundamental solution of an equation describing the propagation of longitudinal waves in a dispersive medium. (Russian) 88d:35011
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- Wagner, David H. Equivalence of the Euler and Lagrangian equations of gas dynamics for weak solutions. 88i:35100
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- Kim, E. I. (with Kulakhmetova, Sh. A.) Construction of a fundamental solution for the heat-conduction equation with discontinuous coefficients. (Russian) **88f:35141**
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- Abenov, M. M. See Kim, E. I., **88f:35067**
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 Borok, V. M. (with Zhitomirskii, Ya. I.) The Cauchy problem for equations with loads on surfaces. (Russian) **88j:35031**
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 Georgiou, D. A. Extremal solutions of functional hyperbolic initial value problems. **88c:35181**
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 Schaaf, Klaus W. Asymptotic behavior and traveling wave solutions for parabolic functional-differential equations. **88g:35190**
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- Aller, R. G. Solvability of an equation with deviating argument and unbounded operator coefficients in a Hilbert space. (Russian) **88d:34084**

- On the stability of the solutions of equations with retarded argument in a Hilbert space. (Russian) **88i:34120**
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 Dyuzhenkova, L. I. A uniqueness theorem for a class of functional-differential equations with variable coefficients. (Russian) (See **88d:00004**)
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 Muradov, R. I. Generalized solution of a second-order degenerate integro-differential equation of parabolic type with retarded argument. (Russian) (See **88k:35004**)
 Niikura, Yasuo See Yamada, Yoshio, **88m:35012**
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 Schiaffino, Andrea See Malec, Marian, **88m:65162**
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 Yamada, Yoshio (with Niikura, Yasuo) Bifurcation of periodic solutions for nonlinear parabolic equations with infinite delays. **88m:35012**
 Yoshida, Norio Forced oscillations of solutions of parabolic equations. **88j:35016**
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- 35R15 Equations on function spaces [See also 58D25.]**
- Alart, P. Convergence d'un schéma de discrétisation implicite pour une équation d'évolution multivoque via une régularisation. [Convergence of an implicit discretization scheme for a multivalued evolution equation via a regularization] **88m:35149**
 Barbu, Viorel A semigroup approach to Hamilton-Jacobi equations in Hilbert space. **88b:35199**
 Berezanskii, Yu. M. (with Samoilenko, V. G.) Selfadjointness of infinite-dimensional elliptic differential operators. (Russian) **88m:35150**
 Bokhonor, Yu. E. On linear parabolic and elliptic systems with a finite-dimensional and an infinite-dimensional argument. (Russian) **88i:35171**
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 Kondrat'ev, Yu. G. (with Tsikalenko, T. V.) Dirichlet operators and related differential equations. (Russian) **88d:35184**
 Kurbyko, I. F. The Cauchy problem for evolution equations with an infinite-dimensional pseudodifferential operator. (Russian) **88b:35108**
 Evolution equations with infinite-dimensional pseudodifferential operators. (Russian) **88m:35151**
 Oniciulescu, I. (with Stefanescu, Dragos) Briot-Bouquet equations with partial Fréchet derivatives in Banach spaces. (Romanian summary) **88m:35152**
 Romanko, V. K. Systems of operator-differential equations. (Russian) **88j:35148**
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- Andersson, Lars Åke. Prequantization of infinite-dimensional dynamical systems. 88k:58017
- Bilushchak, G. I. The multiple Wiener integral in the space of continuous functions of an infinite number of variables. (Russian) 88k:28011
- Brydges, D. C. Expansions in statistical mechanics as part of the theory of partial differential equations. 88i:82008
- Dubinskii, Yu. A. ★ Sobolev spaces of infinite order and differential equations. 88d:46051
- Ginibre, J. (with Velo, G.) Nonlinear evolution equations. Cauchy problem and scattering theory. 88a:35205
- Keener, James P. Propagation and its failure in coupled systems of discrete excitable cells. 88k:92028
- Khrennikov, A. Yu. See Smolyanov, O. G., 88h:58114
- Kuo, Hui-Hsiung. The heat equation and Fourier transforms of generalized Brownian functionals. 88k:60113
- Liskevich, V. A. (with Semenov, Yu. A.) Selfadjointness of elliptic operators with an infinite number of variables. (Russian) 88k:47058
- Semenov, Yu. A. See Liskevich, V. A., 88k:47058
- Smolyanov, O. G. (with Khrennikov, A. Yu.) Algebra of infinite-dimensional pseudodifferential operators. (Russian) 88h:58114
- Tulkalenko, T. V. The infinite-dimensional Schrödinger operator and its potential perturbations. (Russian) 88k:47102
- Umbetzhano, D. U. Construction of an almost-periodic solution from the countable set of variables of a system of partial differential equations. (Russian) 88h:35013
- Velo, G. See Ginibre, J., 88a:35205
- Zhang, Yin Nan. Laplace-Beltrami operators of measures on Banach spaces. 88i:46060

35R20 Operator equations, general [See also 34Gxx, 47A50, 47H15.]

- Abramov, Yu. Sh. Two-parameter operator pencils of waveguide type. (Russian) 88a:35220
- Aliev, F. A. The behavior of the solutions of the Cauchy problem for a class of quasilinear operator-differential equations. (Russian. English and Azerbaijani summaries) 88k:35200
- Gorbachuk, V. I. On the solvability of the Dirichlet problem for a second-order operator-differential equation in various spaces. (Russian) 88f:35144
- Kashpirovskii, A. I. (with Oleinik, L. A.) Regularity of generalized solutions of inhomogeneous operator-differential equations. (Russian) 88d:35185
- Lyashko, S. I. On the solvability of mixed boundary value problems with operator coefficients. (Russian) 88h:35109
- Oleinik, L. A. See Kashpirovskii, A. I., 88d:35185
- Rzepecki, B. On a problem of Darboux in Banach spaces. (Russian summary) 88f:35145
- Tutschke, Wolfgang. An abstract nonlinear Cauchy-Kowalewski theorem and its proof by a contraction-mapping principle. (Serbo-Croatian summary) 88j:35149
- Umarov, S. R. Boundary value problems for operator-differential equations and their applications to pseudodifferential equations. (Russian) 88a:35221

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- Amrein, W. O. (with Boutet de Monvel-Berthier, Anne; Georgescu, Vladimir) Hardy type inequalities for abstract differential operators. 88j:35012
- Avin, Joel D. Energy convergence results for strongly damped nonlinear wave equations. 88m:35103
- Babin, A. V. (with Vishik, M. I.) On unstable sets of evolution equations in a neighborhood of critical points of a stationary curve. (Russian) 88j:35072
- Bertero, M. Regularization methods for linear inverse problems. 88d:65091
- Boutet de Monvel-Berthier, Anne. See Amrein, W. O.; et al., 88j:35012
- Di Blasio, G. Global solutions for a class of Hamilton-Jacobi equations in Hilbert spaces. 88e:49056
- Domshlak, Yu. I. ★ Метод сравнения "по Штурму" в исследовании поведения решений дифференциально-операторных уравнений. (Russian) [A comparison method "in the sense of Sturm" in the investigation of the behavior of solutions of operator-differential equations] 88b:34003
- Engler, H. (with Neubrander, F.; Sandefur, J.) Strongly damped semilinear second order equations. 88k:35137
- Georgescu, Vladimir. See Amrein, W. O.; et al., 88j:35012
- Gutman, Semion. Regularizing properties of nonlinear semigroups. 88j:47086
- Kitahara, Kiyoshi. See Nakada, Hiromitsu; et al., 88g:34106
- Koike, Minoru. See Nakada, Hiromitsu; et al., 88g:34106
- Koshigoe, Hideyuki. See Nakada, Hiromitsu; et al., 88g:34106
- Mambetov, R. Investigation of the almost everywhere time-periodic solution of a multidimensional boundary value problem for a class of second-order parabolic equations with a periodic coefficient and a nonlinear operator right-hand side. (Russian) (See 88j:00010)
- Nakada, Hiromitsu (with Kitahara, Kiyoshi; Koike, Minoru; Koshigoe, Hideyuki; Takato, Setsuo) The nonlinear Cauchy problem on a Banach scale with the vector-valued time variable. (Japanese. English summary) 88g:34106
- Neubrander, F. See Engler, H.; et al., 88k:35137
- Pivtorak, N. I. Solvable boundary value problems for an operator-differential equation of parabolic type. (Russian) 88e:34106
- Reissig, M. Ein abstraktes nichtlineares Cauchy-Kowalewskaja-Theorem mit singulären Koeffizienten. I. (English and Russian summaries) [An abstract-nonlinear Cauchy-Kowalewskaja theorem with singular coefficients] 88j:35011
- Sandefur, J. See Engler, H.; et al., 88k:35137
- Štaras, Arūnas. The averaging method for weakly nonlinear operator equations. (Russian) 88m:34044
- Takato, Setsuo. See Nakada, Hiromitsu; et al., 88g:34106
- Tutschke, Wolfgang. The method of scales of Banach spaces and its application to permanence principles. (See 88h:00002)

- Ugowski, Henryk. On the second Fourier problem for an infinite system of semilinear parabolic equations in a Banach space. 88k:35087
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- Atakhodzhaev, M. A. On the nonuniqueness of the solution of an ill-posed problem for the biharmonic equation. (Russian) (See 88j:35002)
- ★ Нехорректные задачи для бигармонического уравнения. (Russian) [Ill-posed problems for the biharmonic equation] 88a:35222
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- Carasso, Alfred S. Infinitely divisible pulses, continuous deconvolution, and the characterization of linear time invariant systems. 88g:35192
- Lacey, A. A. A limiting solution for an ill-posed membrane problem. 88a:35224
- Laneve, E. B. A problem of the continuation of a potential in a nonsimply connected domain. (Russian) 88i:35172
- Temirbulatov, S. I. On some problems of the formulation and solution of some ill-posed boundary value problems for partial differential equations. (Russian) (See 88e:35004)

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- Abergel, Frédéric. A non-well-posed problem in convex optimal control. 88j:49012
- Atakhodzhaev, M. A. Dense solvability of an ill-posed problem for the biharmonic equation. (Not in MR)
- Atamanov, E. R. (with Bibaev, R. R.) Well-posedness in the sense of Tikhonov of a mixed problem for a pseudohyperbolic equation. (Russian) 88m:35112
- Bibaev, R. R. See Atamanov, E. R., 88m:35112
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- Christov, C. I. The method of variational imbedding for time reversal parabolic incorrect problems. 88j:35066
- Colombini, Ferruccio (with Jannelli, Enrico; Spagnolo, Sergio) Hyperbolic equations and classes of infinitely differentiable functions. 88f:35086
- Dzhuraev, Kh. Sh. On a solution of the Cauchy problem for the Laplace equation. (Russian. Tajiki summary) 88i:35034
- Gomboev, L. G. An ill-posed problem for a degenerate parabolic equation. (Russian) 88f:35078
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- Janušauskas, Algimantas. The formulation of well-posed boundary value problems for a class of systems of evolution type. (Russian) 88j:35077
- Liu, Xi Yuan (with Chen, Yung Ming) A generalized pulse-spectrum technique (GPST) for determining time-dependent coefficients of one-dimensional diffusion equations. 88k:35215
- Rozanov, R. A. The regularization method and the generalized residual principle in the inverse scattering problem for a hyperbolic system of equations. (Russian) 88d:35019
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- Spagnolo, Sergio. See Colombini, Ferruccio; et al., 88f:35086
- Symes, William W. On the relation between coefficient and boundary values for solutions of Webster's horn equation. 88c:35151

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- Abdiev, K. S. A uniqueness theorem and estimation of the stability of the solution of an inverse problem for a first-order hyperbolic system. (Russian) 88c:35148
- Ablowitz, Mark J. See Ragnisco, O.; et al., 88d:35191
- Alessandrini, Giovanni. An identification problem for an elliptic equation in two variables. (Italian summary) 88g:35193
- Amirov, A. Kh. Existence and uniqueness theorems for the solution of an inverse problem for the transfer equation. (Russian) 88g:35194
- A class of inverse problems for a special kinetic equation. 88j:35150
- Anikonov, Yu. E. ★ Псевдодифференциальные операторы и обратные задачи. (Russian) [Pseudodifferential operators and inverse problems] 88k:35207
- Atamanov, E. R. An inverse initial value problem for a pseudoparabolic equation. (Russian) 88k:35208
- Baev, A. V. A method for solving an inverse boundary value problem for the wave equation. (Russian) 88b:35201
- Barashkov, A. S. (with Barashkova, G. I.) Determination of the coefficient of the Helmholtz equation from boundary values of the solution. (Russian) 88d:35186
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- Barclon, Victor. Inverse eigenvalue problems. 88d:35187
- Cannon, John R. (with Pérez Esteve, Salvador) A note on an inverse problem related to the 3-D heat equation. 88k:35209
- (with Lin, Yanping) Determination of a source term in a linear parabolic differential equation with mixed boundary conditions. 88k:35210
- (with DuChateau, Paul) Design of an experiment for the determination of an unknown coefficient in a nonlinear conduction-diffusion equation. 88m:35153
- (with Rundell, William) An inverse problem for an elliptic partial differential equation. 88i:35173
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- DeChateau, Paul. Inverse problems for parabolic partial differential equations. 88j:35151
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- Eidelman, Yu. S. An inverse problem for a parabolic system of differential equations. (Russian) 88k:35110
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- Friedman, Arner. Detection of mines by electric measurements. 88c:35149
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- Gafarova, A. F. Local solvability of certain inverse problems for parabolic equations. (Russian) 88k:35212
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- Gerlach, Wolfgang (with Unger, Friedmar; von Wolfersdorf, L.) On approximate computation of the heat flux of a body from the known surface temperature. (German and Russian summaries) 88k:35213
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- Grasse, Kevin A. (with White, L. W.) Coefficient estimation in a first-order nonlinear hyperbolic Cauchy problem. 88c:35182
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 Genest, Christian (with Wagner, Carl G.) Further evidence against independence preservation in expert judgement synthesis. 88b:90014
 Haruki, H. A new functional equation characterizing generalized Joukowski transformations. 88i:30041
 Parkash, Om (with Singh, Radhey S.) On characterization of useful information-theoretic measures. 88j:94016
 Quispel, G. R. W. Universal functional equation for period doubling in constant-Jacobian maps. 88b:58097
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 Singh, Radhey S. See Parkash, Om, 88j:94016
 Strambach, Karl Multiplikationen mit großen Automorphismengruppen. [Multiplications with large automorphism groups] 88g:51041
 Sultanova, Z. T. (with Borisov, S. N.) Substitution of an equation with three variables by the Cauchy form. (Russian. English and Azerbaijani summaries) 88m:65210
 Sziget, Jenő Homological methods in the solution of certain functional equations. 88k:39018
 Wagner, Carl G. See Genest, Christian, 88b:90014

39B50 Functional equations on algebraic structures

- Benz, W. The functional equation of dilatations on restricted domains. (Arabic summary) 88k:39016
 Brilouët, N. (with Dhombres, J.) Équations fonctionnelles et recherche de sous-groupes. [Functional equations and the search for subgroups] 88i:39016
 Davison, T. M. K. Röhmel's equation for quadratic forms. 88j:39010
 Dhombres, J. See Brilouët, N., 88i:39016

- Haruki, Shigeru Partial difference equations analogous to the Cauchy-Riemann equations. II. 88f:39011
- Midura, Stanisław Les solutions continues de l'équation de translation sur le groupe additif des nombres réels. [Continuous solutions of the translation equation on the additive group of real numbers] 88k:39017
- Panaretos, John On a functional equation for the generating function of the logarithmic series distribution. 88e:39017
- Semrl, Peter On quadratic and sesquilinear functionals. 88h:39007
- Székelyhidi, L. Remarks on Hyers's theorem. 88g:39005
- Székely, Jenő Homological methods in the solution of certain functional equations. 88k:39018

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- Bajraktarević, Mahmud Sur un opérateur particulier appliqué à certaines équations fonctionnelles. (Serbo-Croatian summary) [A particular operator applied to certain functional equations] 88e:39007
- Daróczy, Z. (with Kátai, I.) On additive arithmetical functions with values in topological groups. I. 88e:11093
- Kátai, I. See Daróczy, Z., 88e:11093
- Kumari, Kanchan (with Parnami, J. C.; Vasudeva, H. L.) On the functional equation $\Delta_n^2 f(x) - n!f(y) = 0$. 88d:39022
- Mak, King-Tim Coherent continuous systems and the generalized functional equation of associativity. 88m:90019
- Mehring, Günther H. Der Hauptsatz über Iteration im Ring der formalen Potenzreihen. [The principal theorem on iteration in the ring of formal power series] 88h:13014
- Parnami, J. C. See Kumari, Kanchan; et al., 88d:39022
- Székelyhidi, L. On addition theorems. 88j:39009
- Vasudeva, H. L. See Kumari, Kanchan; et al., 88d:39022

39B60 Matrix functional equations

- Gracia, Juan-Miguel On Pólya's functional equation. 88h:39008
- Rizvi, S. A. H. A linear matrix difference equation. 88e:39015

39B70 Functional equations on abstract spaces or structures

- Baskaran, R. (with Subrahmanyam, P. V.) A note on the solution of a class of functional equations. 88m:39005
- Ng, C. T. The equation $F(x) + M(x)G(1/x) = 0$ and homogeneous biadditive forms. 88g:39006
- Rätz, Jörg On the conditional Cauchy functional equation of orthogonal additivity. (Italian summary) 88h:39009
- Subrahmanyam, P. V. See Baskaran, R., 88m:39005

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- Alsina, Claudi (with García Roig, J.-L.) On a functional equation related to the Ptolemaic inequality. 88m:46031
- Benz, W. (with Berens, H.) A contribution to a theorem of Ulam and Mazur. 88j:46020
- Berens, H. See Benz, W., 88j:46020
- Gajda, Zbigniew Christensen measurable solutions of generalized Cauchy functional equations. 88d:39020
- García Roig, J.-L. See Alsina, Claudi, 88m:46031
- Kumari, Kanchan (with Parnami, J. C.; Vasudeva, H. L.) On the functional equation $\Delta_n^2 f(x) - n!f(y) = 0$. 88d:39022
- Parnami, J. C. See Kumari, Kanchan; et al., 88d:39022
- Rätz, Jörg On the characterization of Lorentz transformations by a functional equation. (Italian summary) 88h:51011
- Slyusarchuk, V. E. On the representation of bounded solutions of discrete linear systems. (Russian) 88g:93086
- Székelyhidi, L. Remarks on Hyers's theorem. 88g:39005
- Tolokonnikov, G. K. Classification of algebras of functions that are close to associative, using the method of functional equations. (Russian) 88d:17022
- Vasudeva, H. L. See Kumari, Kanchan; et al., 88d:39022
- Vukman, J. Some functional equations in Banach algebras and an application. 88d:46093

39B99 None of the above, but in this section

- Alsina, Claudi (with Sklar, A.) A characterization of continuous associative operations whose graphs are ruled surfaces. 88j:39011
- Kornilov, P. A. The Nikishin condition for the linearity of a set of sums of a functional series. (Russian) 88m:39006
- Pedrycz, W. On solution of fuzzy functional equations. 88e:39016
- Sklar, A. See Alsina, Claudi, 88j:39011

Items secondarily classified 39B99

- Aceá, János (with Alsina, Claudi) Synthesizing judgements: a functional equations approach. 88h:92054
- Alsina, Claudi See Aceá, János, 88h:92054
- Boshernitzan, Michael Hardy fields and existence of transexponential functions. 88h:26003
- Hajela, D. On solutions of some nonlinear recurrences. 88f:41056
- Lozoncel, L. Sum form equations on an open domain. II. 88d:94006
- Vasovskii, D. A. Some applications of functional-differential inequalities. (Russian) 88h:34096

39C05 Functional inequalities [See also 26Dxx.]

- Kumari, Kanchan (with Parnami, J. C.; Vasudeva, H. L.) On the functional equation $\Delta_n^2 f(x) - n!f(y) = 0$. 88d:39022
- Nikodem, Kazimierz Midpoint convex functions majorized by midpoint concave functions. 88h:39010
- Parnami, J. C. See Kumari, Kanchan; et al., 88d:39022
- Powzka, Zbigniew Volkmann-type results for some functional inequalities. (Russian and Polish summaries) 88f:39012
- Vasudeva, H. L. See Kumari, Kanchan; et al., 88d:39022
- Walorski, Janusz On a functional inequality. 88j:39012

Items secondarily classified 39C05

- Ger, Joanna Convex functions in metric spaces. (Serbo-Croatian summary) 88d:26020
- Kominek, Z. On some property of J -concave functions. (Serbo-Croatian summary) 88h:26005
- Pečarić, Josip E. Modified version of a general result of Vasić-Adamović-Kečkić and some remarks concerning inequalities for convex functions. (Serbo-Croatian summary) 88j:26017

40-XX Sequences, series, summability

40-01 Elementary exposition; textbooks

- Vorob'ev, N. N., Jr. ★ Теория рядов. (Russian) [Theory of series] 88j:40001

Items secondarily classified 40-01

- Budak, Boris M. (with Fomin, S. V.) ★ Integrali multipli e serie. (Italian) [Multiple integrals and series] 88f:00001
- Evgrafov, M. A. Series and integral representations. (Russian) 88g:00001
- Fomin, S. V. See Budak, Boris M., 88f:00001
- (Koretskii, Vitalii) See Budak, Boris M., 88f:00001

40-02 Advanced exposition (research surveys, monographs, etc.)

Items secondarily classified 40-02

- Janušauskas, Algimantas ★ Кратные тригонометрические ряды. (Russian) [Multiple trigonometric series] 88b:42001

40-03 Historical (must also be assigned at least one classification number from Section 01)

Items secondarily classified 40-03

- (Bernoulli, Johann I) See Fellmann, Emil A., 88f:01011
- Brezinski, Claude The long history of continued fractions and Padé approximants. (Polish) 88i:01007
- Dunham, William The Bernoullis and the harmonic series. 88e:01017
- (Euler, Leonhard) See Fellmann, Emil A., 88f:01011
- Fellmann, Emil A. Infinite series in the correspondence of Leonhard Euler and John I Bernoulli. 88f:01011
- Grattan-Guinness, I. The Cauchy-Stokes-Seidel story on uniform convergence again: was there a fourth man? 88d:01019
- Kuznetsova-Fetisova, V. V. Questions on the divergence of series in the correspondence of mathematicians in the eighteenth century. (Russian) 88e:01027
- (Paskowski, Stefan) See Brezinski, Claude, 88i:01007

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

- Aljančić, S. Generalization of a theorem due to Cesàro. 88j:40002
- Barbieri, F. (with Zanelli, V.) Distribution of signs and a theorem of Cesàro. (Italian) 88g:40001
- Chan, Ling Yau On L^p -behaviour and Lipschitz behaviour of Dirichlet series and power series. 88d:40001
- Davydov, N. A. On two equivalent definitions of a kernel of a sequence of complex numbers. (Russian) 88d:40002
- Delbosco, Domenico See Rossati, Franco, 88h:40001
- Hozo, Istok (with Miller, Harry I.) On Riemann's theorem about conditionally convergent series. 88d:40003
- Karadžić, L. On the convergence of some series which can be brought to the form $\sum \alpha_n a_n - \beta_n b_n$. (Serbo-Croatian summary) 88e:40001
- Klaar, K. See Oja, Eve, 88m:40001
- Kocić, Lj. M. See Milovanović, I. Z.; et al., 88e:40002
- Kumar, Ashok See Pandey, Diwakar, 88f:40001
- Martić, Branislav A remark on a theorem of Stolz and one of Jensen. (Serbo-Croatian summary) 88d:40004
- Mikhailov, M. D. (with Özişik, M. N.) A method of accelerating the convergence of series solutions. 88e:40001

- Miller, Harry I. See Hozo, Iztok, 88d:40003
- Milovanović, I. Ž. (with Stojanović, N. M.; Kocić, Lj. M.) On representation of a linear operator on the set of starshaped sequences. (Serbo-Croatian summary) 88c:40002
- Oja, Eve (with Klar, K.) The rate of convergence of a Cauchy product. (Russian. English summary) 88m:40001
- Özşik, M. N. See Mikhailov, M. D., 88c:40001
- Pandey, Diwakar (with Kumar, Ashok) A generalization of absolute almost convergence. 88f:40001
- Rath, D. A note on series and sequences. 88j:40003
- Rosenthal, Peter The remarkable theorem of Lévy and Steinitz. 88d:40005
- Rossati, Franco (with Delbosco, Domenico) A convergence test for positive series. 88h:40001
- Simić, Slavko Monotonicity of segments of harmonic series. I. (Serbo-Croatian summary) 88d:40006
- Sitaramachandra Rao, R. Some formulae of S. Ramanujan. 88m:40002
- Siepenchuk, K. M. Nonlinear transformations of absolutely convergent sequences. (Russian) (See 88k:41004)
- Stojanović, N. M. See Milovanović, I. Ž., et al., 88c:40002
- Stout, Quentin F. On Levi's duality between permutations and convergent series. 88f:40002
- Tandori, K. Über die Mittel stochastisch unabhängiger Funktionen. (Russian summary) [On the means of stochastically independent functions] 88d:40007
- Vojtáš, Peter Set-theoretic characteristics of summability of sequences and convergence of series. 88i:40001
- Zanelli, V. See Barbieri, F., 88g:40001

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- Abian, Alexander A purely number theoretic attempt to prove Picard's theorems. 88c:30036
- Bor, Hüseyin On integrability of Rees-Stanojević sums. 88a:42006
- Longman, I. M. Increasing the convergence rate of series. 88h:65013

40A15 Convergence and divergence of continued fractions [See also 30B70.]

- Baltus, Christopher (with Jones, William B.) A family of best value regions for modified continued fractions. 88g:40002
- Bodnar, D. I. ★ Ветвящиеся цепные дроби. (Russian) [Branching continued fractions] 88g:40003
- Brezinski, Claude Successive modifications of limit periodic continued fractions. 88h:40002
(with Lembarki, A.) The linear convergence of limit periodic continued fractions. 88h:40003
- de Bruin, M. G. (with Jacobsen, Lisa) Modification of generalised continued fractions. I. Definition and application to the limit-periodic case. 88f:40003
- Cooper, S. Clement On M-tables associated with strong moment problems. 88c:40002
- Cuyt, A. The Euler-Minding series for branched continued fractions. 88d:40008
- Dudley, R. M. Some inequalities for continued fractions. 88j:40004
- Filaseta, Michael Newton's method and simple continued fractions. 88c:40003
- Gilewicz, J. (with Leopold, E.) Location of the zeros of polynomials satisfying three-term recurrence relations. I. General case with complex coefficients. 88a:40001
- Huckle, Thomas Über die Koeffizienten der Stieltjes-Matrix eines Jacobi-Kettenbruchs. [On the coefficients of the Stieltjes matrix of a Jacobi continued fraction] 88d:40009
- Istad, Roy M. (with Waadeland, Haakon) A strategy for numerical computation of limit regions. 88b:40001
- Jacobsen, Lisa (with Thron, W. J.) Oval convergence regions and circular limit regions for continued fractions $K(a_n/1)$. 88c:40004
(with Jones, William B.; Waadeland, Haakon) Further results on the computation of incomplete gamma functions. 88f:40004
- On the convergence of limit periodic continued fractions $K(a_n/1)$, where $a_n \rightarrow -\frac{1}{2}$. II. 88k:40001
- Nearness of continued fractions. 88k:40002
(with Thron, W. J.) Limiting structures for sequences of linear fractional transformations. 88d:40010
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- Jones, William B. See Jacobsen, Lisa; et al., 88f:40004 and Baltus, Christopher, 88g:40002
- Kalton, N. J. (with Lange, L. J.) Equimodular limit periodic continued fractions. 88i:40002
- Kuchminkaya, Kh. I. (with Sus', O. N.) Two conditions for the convergence of two-dimensional continued fractions. (Russian) 88f:40005
- Lange, L. J. See Kalton, N. J., 88i:40002
- Lembarki, A. Acceleration of limit periodic continued fractions by the T_{-M} transformation. 88f:40006
See also Brezinski, Claude, 88h:40003
- Leopold, E. Location of the zeros of polynomials satisfying three-term recurrence relations. III. Positive coefficients case. 88h:40004
See also Gilewicz, J., 88a:40001
- Sørdsal, Ellen (with Waadeland, Haakon) On the convergence of a certain class of continued fractions $K(a_n/1)$ with $a_n \rightarrow \infty$. 88c:40005
- Sus', O. N. See Kuchminkaya, Kh. I., 88f:40005
- Thron, W. J. See Jacobsen, Lisa, 88c:40004 and 88d:40010
- Waadeland, Haakon See Istad, Roy M., 88b:40001; Sørdsal, Ellen, 88c:40005 and Jacobsen, Lisa; et al., 88f:40004

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- Aptekarev, A. I. (with Kalyagin, V. A.) Analytic properties of functions representable by $p^{(m)}$ -fractions with periodic coefficients. (Russian. English summary) 88c:41030
- Butler, C. A. (with Morley, T. D.) Schur complements and continued fractions. 88g:15009
- Jacobsen, Lisa A theorem on simple convergence regions for continued fractions $K(a_n/1)$. 88f:30007

- Jones, William B. (with Njåstad, Olav; Thron, W. J.) Continued fractions associated with trigonometric and other strong moment problems. 88m:30087
- Kalyagin, V. A. See Aptekarev, A. I., 88c:41030
- Kuchminkaya, Kh. I. On approximation of functions by two-dimensional continued fractions. 88g:41017
- Morley, T. D. See Butler, C. A., 88g:15009
- Njåstad, Olav See Jones, William B.; et al., 88m:30087
- Parusnikov, V. I. On the convergence of the multidimensional limit-periodic continued fractions. 88i:30007
- Thron, W. J. See Jones, William B.; et al., 88m:30087
- Waadeland, Haakon A note on partial derivatives of continued fractions. 88c:30011

40A20 Convergence and divergence of infinite products

- Siepenchuk, K. M. Transformation of a class of double infinite products. (Russian. Georgian summary) 88d:40011

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- Karadžić, L. On the convergence of some series which can be brought to the form $\sum \alpha_n a_n - \beta_n b_n$. (Serbo-Croatian summary) 88c:40001

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

- Levin, Viktor Iosifovich On a statement of S. Ramanujan. (Russian) 88g:40004
- Philip, J. R. Table errata: "The symmetrical Euler-Maclaurin summation formula" [Math. Sci. 6 (1981), no. 1, 35-41; MR 82g:40002]. 88b:40002
- Errata: "The symmetrical Euler-Maclaurin summation formula" [Math. Sci. 6 (1981), no. 1, 35-41; MR 82g:40002]. 88j:40005
- Rautenberg, Wolfgang Zur Approximation von e durch $(1 + 1/n)^n$. [On the approximation of e by $(1 + 1/n)^n$] 88f:40007

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- Actor, Alfred Zeta-function derivation of Euler-Maclaurin sum rules. 88c:65008
- Freedén, Willi (with Hermann, Peter) Some reflections on multidimensional Euler and Poisson summation formulas. 88k:11064
- Hermann, Peter See Freedén, Willi, 88k:11064
- Longman, I. M. The summation of Fourier, Chebyshev, and Legendre series. 88g:42030
- Lucht, Lutz G. Summation of a series of Erdős-Turán. 88c:11081
- Sitaramachandra Rao, R. A formula of S. Ramanujan. 88c:11048

40A30 Convergence and divergence of series and sequences of functions

- Bienias, Jerzy On the convergence of a sequence of superpositions. (Russian and Polish summaries) 88c:40006
- Kumuyi, W. F. (with Nassif, M.) Derived and integrated sets of simple sets of polynomials in two complex variables. 88a:40002
- Lumina, M. A. On absolute and conditional convergence of series of continuous functions on a metric space. (Russian) 88m:40003
- Nassif, M. See Kumuyi, W. F., 88a:40002

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- Karadžić, L. On the convergence of some series which can be brought to the form $\sum \alpha_n a_n - \beta_n b_n$. (Serbo-Croatian summary) 88c:40001
- Kreiss, Heinz-Otto (with Manteuffel, Thomas A.; Swartz, Blair; Wendroff, B.; White, A. B., Jr.) Supra-convergent schemes on irregular grids. 88b:65082
- Manteuffel, Thomas A. See Kreiss, Heinz-Otto; et al., 88b:65082
- Swartz, Blair See Kreiss, Heinz-Otto; et al., 88b:65082
- Wendroff, B. See Kreiss, Heinz-Otto; et al., 88b:65082
- White, A. B., Jr. See Kreiss, Heinz-Otto; et al., 88b:65082

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- Atanassov, Krassimir T. Remark on the harmonic series. 88m:40004
- Levesque, Claude A basis of the set of sequences satisfying a given m th order linear recurrence. 88c:40003

Items secondarily classified 40A99

- Wallace, Roger J. The maximal solution of a restricted subadditive inequality in numerical analysis. 88i:39002

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Items secondarily classified 40B05

- Janušauskas, Algimantas ★ Кратные тригонометрические ряды. (Russian) [Multiple trigonometric series] 88b:42001
- Rempulska, Lucyna Some properties of summability methods of the Abel type. IV. 88h:40009b

40Cxx General summability methods

40C05 Matrix methods

- Antosik, P. (with Srinivasan, V. K.) A new proof of a theorem of Toeplitz in summability theory. **88c:40007**
- Basar, Feyzi (with Colak, Rifat) On the strongly regular dual summability methods of the second kind. **88j:40006**
- Butković, D. (with Kraljević, H.; Sarapa, N.) On the almost convergence. **88j:40007**
- Colak, Rifat See Basar, Feyzi, **88j:40006**
- Das, Gokulananda (with Pujari, S. N.) Inverse and reversibility of quasimatrix transformation. **88f:40008**
- Keagy, T. A. Matrix methods and the property of stretchings. **88m:40005**
- Kraljević, H. See Butković, D.; et al., **88j:40007**
- Lal, Shiva Narain See Tripathi, L. M., **88h:40007**
- Magee, J. C. (with Ruckle, W. H.) The strong topology on the dual space of a summability field and the mu-continuity problem. **88h:40005**
- Malkowsky, E. Toeplitz-Kriterien für Klassen von Matrixabbildungen zwischen Räumen stark limitierbarer Folgen. [Toeplitz criteria for classes of matrix-mappings between spaces of strongly summable series] **88c:40008**
- Mursaleen, A. A note on F_g -convergence. (Russian summary) **88f:40009**
- Natarajan, P. N. A Steinhaus type theorem. **88c:40009**
- Ohl, E. C. The summability significance of roots of Bessel functions. **88b:40003a**
- Corrigenda: "The summability significance of roots of Bessel functions". **88b:40003b**
- Orhan, C. F -absolute equivalence of F -regular summability methods. (Turkish summary) **88h:40006**
- (with Öztürk, E.) On F -regular dual summability methods. **88a:40003**
- Absolutely p th power conservative matrices. **88j:40008**
- Strongly almost regular dual summability methods. **88g:40005**
- Öztürk, E. See Orhan, C., **88a:40003**
- Pujari, S. N. See Das, Gokulananda, **88f:40008**
- Rath, D. Conservative matrices and infinite limits. **88b:40004**
- Rhoades, B. E. (with Shi, Xian Liang) Another way to characterize strong regularity. **88g:40006**
- Lower bounds for some matrices. **88g:40007**
- Ruckle, W. H. See Magee, J. C., **88h:40005**
- Sarapa, N. See Butković, D.; et al., **88j:40007**
- Savaş, Ekrem On σ -regular dual summability methods. **88m:40006**
- Shi, Xian Liang See Rhoades, B. E., **88g:40006**
- Srinivasan, V. K. See Antosik, P., **88c:40007**
- Tripathi, L. M. (with Lal, Shiva Narain) On uniform triangular matrix summability of Legendre series. (Hindi. English summary) **88h:40007**

Items secondarily classified 40C05

- Al-Madi, Azmi K. Comparison theorems of the product of Riesz summability methods. **88h:40006**
- Antoni, Jozef On the A -continuity of real function. II. (Russian summary) **88a:26001**
- Beekmann, Wolfgang (with Chang, Shao-Chien) Total comparison of Cesàro type methods. **88g:40009**
- Chang, Shao-Chien See Beekmann, Wolfgang, **88g:40009**
- Dawson, David F. Transformations induced by summability factors. (Italian summary) **88m:40010**
- Mishra, Shantilata Banach limits and infinite matrices. II. **88i:46016**
- Nanda, Sudarsan Absolute almost convergence and absolute almost summability. **88h:40010**
- Sirajudeen, S. M. (with Somasundaram, D.) A note on matrix transformations of some generalized sequence spaces into semiperiodic sequence space. **88h:46011**
- Somasundaram, D. Entire method of summation over non-Archimedean fields. **88h:40011**
- See also Sirajudeen, S. M., **88i:46011**
- Vojtáš, Peter Set-theoretic characteristics of summability of sequences and convergence of series. **88i:40001**

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

- Beichev, Georgi S. B^p -summability of series in Gegenbauer polynomials on boundaries of their regions of convergence. **88f:40010**
- Chu, Larry K. Summability methods based on the Riemann zeta function. **88m:40007**
- Prasad, Kanahya On some aspects of summability. **88g:40008**

Items secondarily classified 40C15

- Borwein, David Tauberian and other theorems concerning Dirichlet's series with nonnegative coefficients. **88m:40012**

40C99 None of the above, but in this section

Items secondarily classified 40C99

- Nanda, Sudarsan On some new sequence spaces. **88c:40013**
- Schwinn, H. Strong summability and convergence of subsequences of orthogonal series. **88i:42034**

40Dxx Direct theorems on summability

40D05 General theorems

Items secondarily classified 40D05

- Körle, H.-H. On Riesz summation by natural orders. **88c:40011**

- Kuang, Ji Chang Some generalizations of Stolz's theorem. (Chinese. English summary) **88m:26001**

40D09 Structure of summability fields

- Leiger, T. The order structure of a summability field. (Russian. German summary) **88m:40008**

40D15 Convergence factors and summability factors

- Baron, Simson (with Iametz, S.) Absolute convergence and summability factors in a double sequence. **88b:40005**
- Bor, Hüseyin On the absolute summability factors of infinite series. (Turkish summary) **88m:40009**
- Dawson, David F. Transformations induced by summability factors. (Italian summary) **88m:40010**
- Iametz, S. See Baron, Simson, **88b:40005**
- Zaidi, S. M. H. Absolute matrix summability factors of power series and Fourier series. **88d:40012**

Items secondarily classified 40D15

- Bor, Hüseyin On absolute summability factors. **88j:40003**
- Sai, V. S. Absolute Nörlund summability factors of Fourier series. **88g:40013**

40D20 Summability and bounded fields of methods

Items secondarily classified 40D20

- Leiger, T. The order structure of a summability field. (Russian. German summary) **88m:40008**

40D25 Inclusion and equivalence theorems

- Al-Madi, Azmi K. Comparison theorems of the product of Riesz summability methods. **88b:40006**
- Beekmann, Wolfgang (with Chang, Shao-Chien) Total comparison of Cesàro type methods. **88g:40009**
- Chang, Shao-Chien See Beekmann, Wolfgang, **88g:40009**
- Loone, L. A sequential α -method and a system of α -zero sets. (Russian. English summary) **88m:40011**
- Miyamoto, Ikuko On inclusion relations for absolute Nörlund summability. **88b:40007**
- Rempulski, Lucyna Remarks on the strong summability of numerical and orthogonal series by some methods of Abel type. **88j:40009**

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- Boos, Johann Inclusion theorems for FK-spaces. **88h:40008**
- Bor, Hüseyin (with Thorpe, B.) On some absolute summability methods. **88j:40012**
- Maddox, I. J. Strong logarithmic means. **88f:40012**
- Natarajan, P. N. A Steinhaus type theorem. **88c:40009**
- Rempulski, Lucyna On the relation between the methods (C, α) and (A, n, p) of summability of series. **88d:40013**
- Rhoades, B. E. (with Shi, Xian Liang) Another way to characterize strong regularity. **88g:40006**
- Shi, Xian Liang See Rhoades, B. E., **88g:40006**
- Thorpe, B. See Bor, Hüseyin, **88j:40012**

40D99 None of the above, but in this section

- Vuković, Mirjana A theorem of Abel type for the G_q^* -method of summation. (Russian. Serbo-Croatian summary) **88f:40011**

40Exx Inversion theorems

40E05 Tauberian theorems, general

- Borwein, David (with Meir, A.) A Tauberian theorem concerning weighted means and power series. **88g:40010**
- Tauberian and other theorems concerning Dirichlet's series with nonnegative coefficients. **88m:40012**
- Das, Gokulananda (with Panda, K. C.; Sahoo, S.) Some Tauberian theorems and their applications to (D, λ) method of summability. **88j:40010**
- Jakimovski, A. (with Meyer-König, W.; Zeller, Karl) Two-norm convergence and Tauberian boundedness theorems. **88m:40013**
- van de Lune, J. ★ An introduction to Tauberian theory: from Tauber to Wiener. **88j:40011**
- Lyttkens, Sonja General Tauberian theorems in \mathbb{R}^d connected with a theorem of Korenblum. **88c:40004**
- Meir, A. See Borwein, David, **88g:40010**
- Meyer-König, W. See Jakimovski, A.; et al., **88m:40013**
- Mishra, K. N. (with Srivastava, R. S. L.) Two Tauberian theorems. (Not in MR)
- Panda, K. C. See Das, Gokulananda; et al., **88j:40010**
- Sahoo, S. See Das, Gokulananda; et al., **88j:40010**
- Sarvothaman, K. Nonstandard proofs of Tauber's theorems. **88a:40004**
- Srivastava, R. S. L. See Mishra, K. N., (Not in MR)
- Tanaka, Chuji On the undetermination of summations of Abel and Cesàro. **88a:40005**
- Tenenbaum, Gérard Théorèmes taubériens avec restes. [Tauberian theorems with remainders] **88a:40006**
- Zeller, Karl See Jakimovski, A.; et al., **88m:40013**

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- Ash, J. Marshall (with Jones, Roger L.) Convergence of series conjugate to a convergent multiple trigonometric series. (French summary) **88d:42025**
- Bingham, N. H. (with Goldie, Charles M.; Teugels, J. L.) ★ Regular variation. **88i:26004**
- Drozhzhinov, Yu. N. See Vladimirov, V. S.; et al., **88c:46047**
- Feichtinger, H. G. (with Schmeisser, Hans-Jürgen) Weighted versions of Beurling's Tauberian theorem. **88d:42021**
- Goldie, Charles M. See Bingham, N. H.; et al., **88i:26004**
- Jones, Roger L. See Ash, J. Marshall, **88d:42025**
- Körle, H.-H. On Riesz summation by natural orders. **88c:40011**
- Kuttner, B. (with Parameswaran, Mangalam R.) A Tauberian theorem for Borel summability. **88g:40011**
- (with Parameswaran, Mangalam R.) A Tauberian theorem for Hausdorff methods. **88k:40005**
- Luther, Wolfram The differentiability of Fourier gap series and "Riemann's example" of a continuous, nondifferentiable function. **88d:42018**
- Parameswaran, Mangalam R. See Kuttner, B., **88g:40011** and **88k:40005**
- Radzhabov, E. L. Tauberian theorems for the generalized integral Bessel-Hankel transform. (Russian. Tajiki summary) **88m:44009**
- Schmeisser, Hans-Jürgen See Feichtinger, H. G., **88d:42021**
- Sukla, Indulata Limitation theorem for $(D, h(n))$ summability. **88d:40015**
- Tanaka, Chuji On the cluster-set theoretic extension of A. Tauber's theorem. **88j:30001**
- Teugels, J. L. See Bingham, N. H.; et al., **88i:26004**
- Tröger, G. ★ An Abelian and Tauberian theorem for the Stieltjes transform of generalized functions. **88c:44005**
- Vladimirov, V. S. (with Drozhzhinov, Yu. N.; Zavyalov, B. I.) Tauberian theorems for generalized functions and their applications. (Russian) **88c:46047**
- Zavyalov, B. I. See Vladimirov, V. S.; et al., **88c:46047**

40E20 Tauberian constants

- Kuttner, B. (with Parameswaran, Mangalam R.) A Tauberian theorem for Borel summability. **88g:40011**
- Parameswaran, Mangalam R. See Kuttner, B., **88g:40011**

Items secondarily classified 40E20

- Sukla, Indulata Limitation theorem for $(D, h(n))$ summability. **88d:40015**

40F05 Absolute and strong summability

- Al-Madi, Azmi K. On absolute Rogosinski-Bernstein summability methods. **88a:40007**
- Bor, Hüseyin (with Thorpe, B.) On some absolute summability methods. **88j:40012**
- On absolute summability factors. **88k:40003**
- Choudhary, B. (with Mursaleen) On absolutely regular summability methods. **88k:40004**
- Dolgoplatov, V. G. Strong summability of Riesz means. (Russian) **88c:40010**
- Maddox, I. J. Strong logarithmic means. **88c:40012**
- Mursaleen, M. See Choudhary, B., **88k:40004**
- Paal, Heli (with Soomer, V.) A sequence space with strong summability. (Russian. English summary) **88m:40014**
- Salmasi, M. An extension of a theorem of S. K. Tiwari on the absolute Nörlund summability of a factored Laplace series. (Not in MR)
- Soomer, V. See Paal, Heli, **88m:40014**
- Thorpe, B. See Bor, Hüseyin, **88j:40012**

Items secondarily classified 40F05

- Bor, Hüseyin A note on $|\mathcal{F}, p_n|_k$ summability factors of infinite series. **88f:40013**
- Miyamoto, Tsukao On inclusion relations for absolute Nörlund summability. **88b:40007**
- Sai, V. S. Absolute Nörlund summability factors of Fourier series. **88g:40013**
- Zaidi, S. M. H. Absolute matrix summability factors of power series and Fourier series. **88d:40012**

40Gxx Special methods of summability

Items secondarily classified 40Gxx

- Bingham, N. H. Summability methods and dependent strong laws. **88k:60057**

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

- Agrawal, S. N. (with Verma, S. K.) Absolute Nörlund summability of Jacobi series. (Hindi. English summary) **88i:40003**
- Agrawal, S. R. (with Kantawala, Pragna S.) On the Nörlund summability of orthogonal series. **88b:40008**
- Bochev, Georgi S. Absolute convergence and (C, d) -summability of Jacobi series. (Bulgarian. English and Russian summaries) **88i:40004**
- Bor, Hüseyin A note on $|\mathcal{F}, p_n|_k$ summability factors of infinite series. **88f:40013**
- Borwein, David (with Cass, F. Peter; Sayre, John E.) On generalized Hausdorff matrices. **88b:40008**
- Cass, F. Peter See Borwein, David; et al., **88b:40008**
- Kantawala, Pragna S. See Agrawal, S. R., **88b:40008**
- Krishnan, V. K. On the relation of Cesàro summability to Riemann-Cesàro summability. **88f:40014**
- Kuttner, B. (with Parameswaran, Mangalam R.) A Tauberian theorem for Hausdorff methods. **88k:40005**
- Muraev, E. B. (with Plesyak, A. A.) On the theory of summation of double series by Euler methods. (Russian) **88g:40012**
- Pandey, K. P. (with Tripathi, V. N.; Tripathi, L. M.) On the Nörlund summability of Jacobi series. (Hindi. English summary) (Not in MR)

Parameswaran, Mangalam R. See Kuttner, B., **88k:40005**

Plesyak, A. A. See Muraev, E. B., **88g:40012**

Rempulka, Lucyna On the relation between the methods (C, α) and (A, n, p) of summability of series. **88d:40013**

Rhoades, B. E. Total translitivity for generalized Hausdorff matrices. **88b:40009**

Sai, V. S. Absolute Nörlund summability factors of Fourier series. **88g:40013**

Saxena, R. B. Degree of approximation by Nörlund means. I. (Hindi. English summary) **88i:40005**

Sayre, John E. See Borwein, David; et al., **88b:40008**

Sulaiman, W. T. Multipliers for $|C, l|$ summability of Laplace series. **88d:40014**

Tripathi, L. M. See Pandey, K. P.; et al., (Not in MR)

Tripathi, V. N. See Pandey, K. P.; et al., (Not in MR)

Verma, S. K. See Agrawal, S. N., **88i:40003**

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- Beekmann, Wolfgang (with Chang, Shao-Chien) Total comparison of Cesàro type methods. **88g:40009**
- Bor, Hüseyin On the absolute summability factors of infinite series. (Turkish summary) **88m:40009**
- Butković, D. (with Kraljević, H.; Sarapa, N.) On the almost convergence. **88j:40007**
- Chang, Shao-Chien See Beekmann, Wolfgang, **88g:40009**
- Jajte, Ryszard On the existence of the ergodic Hilbert transform. **88b:47012**
- Kraljević, H. See Butković, D.; et al., **88j:40007**
- Kuttner, B. (with Parameswaran, Mangalam R.) A Tauberian theorem for Borel summability. **88g:40011**
- Leibowitz, Gerald The imaginary part of a Rhyal matrix. **88f:47025**
- Maharam, Dorothy Truncation and density for nonnegative sequences. **88b:26004**
- Malkowsky, E. Toeplitz-Kriterien für Klassen von Matrixabbildungen zwischen Räumen stark limitierbarer Folgen. [Toeplitz criteria for classes of matrix-mappings between spaces of strongly summable series] **88c:40008**
- Móricz, F. (with Rhoades, B. E.) Approximation by Nörlund means of double Fourier series to continuous functions in two variables. **88d:41062**
- Parameswaran, Mangalam R. See Kuttner, B., **88g:40011**
- Rassias, John M. On the generalized Cesàro operators. **88a:47007**
- Rhoades, B. E. See Móricz, F., **88d:41062**
- Sarapa, N. See Butković, D.; et al., **88j:40007**
- Satyanarayan Rao, Arindini On the matrix summability of a sequence of Fourier coefficients. **88d:42013**
- Twomey, J. B. Absolute Cesàro summability and absolute convergence for starlike univalent functions. **88j:30031**
- Zhou, Xin Long Strong convergence of Cesàro means of Fourier series. (Chinese. English summary) **88g:42010**

40G10 Abel, Borel and power series methods

- Bilbao, M. Abel spaces of order λ and extended p -duality. (Spanish. English summary) **88a:40008a**
- Abel echelon spaces and compactness in p -duality. (Spanish. English summary) **88a:40008b**
- Marziani, M. F. Convergence of a class of Borel-Padé-type approximants. (Italian and Russian summaries) **88k:40006**
- Rempulka, Lucyna On some summability methods of the Abel type. **88b:40009a**
- Some properties of summability methods of the Abel type. IV. **88b:40009b**

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- Borwein, David (with Meir, A.) A Tauberian theorem concerning weighted means and power series. **88g:40010**
- Breen, Stephen Feynman diagrams and large order estimates for the exponential anharmonic oscillator. (French summary) **88m:81035**
- Caliceti, E. (with Grecchi, V.; Maioli, M.) Erratum: "The distributional Borel summability and the large coupling Φ^4 lattice fields" [Comm. Math. Phys. **104** (1986), no. 1, 163-174; MR **87m:81181**]. **88k:81164**
- Dopierala, Zenon (with Rempulka, Lucyna) On some summability methods of conjugate trigonometric series. **88d:42012**
- Grecchi, V. See Caliceti, E.; et al., **88k:81164**
- Kuttner, B. (with Parameswaran, Mangalam R.) A Tauberian theorem for Borel summability. **88g:40011**
- Losert, Viktor The Borel property for simple Riesz means. **88c:60056**
- Maioli, M. See Caliceti, E.; et al., **88k:81164**
- Meir, A. See Borwein, David, **88g:40010**
- Parameswaran, Mangalam R. See Kuttner, B., **88g:40011**
- Rempulka, Lucyna Remarks on the strong summability of numerical and orthogonal series by some methods of Abel type. **88j:40009**
- On the relation between the methods (C, α) and (A, n, p) of summability of series. **88d:40013**
- See also Dopierala, Zenon, **88d:42012**
- Tanaka, Chuji On the undetermination of summations of Abel and Cesàro. **88a:40005**

40G99 None of the above, but in this section

- Birmingham, Danny (with Sen, Siddhartha) A Mellin transform summation technique. **88i:40007**
- Jadiva, B. L. On the (v, λ) summability of Laguerre series. (Hindi. English summary) (Not in MR)
- Khare, S. P. Logarithmic summability of Jacobi series. (Hindi. English summary) (Not in MR)
- Körle, H.-H. On Riesz summation by natural orders. **88c:40011**
- Luke, Stanley D. Summability of power series by means of product $B \cdot S(r, t)$ method of summability transform. **88c:40005**

- Maravić, Manjila On some properties of the $(R, \log n, k)$ -method of summability. (Serbo-Croatian. English summary) **88b:40010**
- Rangachari, M. S. On Lambert and Ingham summability. **88c:40006**
- Sen, Siddhartha See Birmingham, Danny, **88k:40007**
- Štaković, Semirha R_k -summability of the Dirichlet series. (Serbo-Croatian. English summary) **88m:40015**
- Slepčuk, K. M. Conditions for absolute summability in power p of double series. (Russian) **88f:40006**
- Sukla, Indulata Limitation theorem for $(D, h(n))$ summability. **88d:40015**
- Wang, Jun Jie On the summability for negative indices of the Chebyshev series of a function with an infinite limit. (Chinese. English summary) **88m:40016**

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- Borwein, David Tauberian and other theorems concerning Dirichlet's series with nonnegative coefficients. **88m:40012**
- Hunter, C. Oscillations in the coefficients of power series. **88c:30100**
- Rempulski, Lucyna The summability of the Fourier series and the Dirichlet problem. (Russian summary) **88a:42009**
- Salimov, Ya. Sh. Equiconvergence of Riesz means of expansions corresponding to an N -tuple system of exponentials and to an N -tuple Fourier integral. (Russian) **88f:42030**
- Settu, S. A. S_p transform and uniform convergence of Laurent and power series. **88f:30004**

40H05 Functional analytic methods in summability

- Boos, Johann Inclusion theorems for FK-spaces. **88k:40008**
- Chandrasekhara Rao, K. SINC-spaces. **88c:40012**
- Chev, Tuan Seng Characterization of orthogonally additive operators on sequence spaces. **88m:40017**
- Kornilov, P. A. The L -property of series in the space l_∞ . (Russian) **88m:40018**
- Lim-Teo, Suat Khoh On some special summability sequence spaces. (Not in MR)
- Liu, Yu Qiang On the space ω . **88k:40009**
- Maddox, I. J. Inclusions between FK spaces and Kuttner's theorem. **88g:40014**
- Nanda, Sudarsan Absolute almost convergence and absolute almost summability. **88h:40010**
- On some new sequence spaces. **88c:40013**
- Sridhar, S. Infinite matrices and almost convergence. **88a:40009**
- Wang, Ting Fu (with Wu, Yan Ping) A criterion for A -summability in Orlicz sequence spaces. (Chinese) (Not in MR)
- Waszak, Aleksander Modular spaces connected with strong (A, ϕ) -summability of double sequences. **88k:40010**
- Wu, Yan Ping See Wang, Ting Fu, (Not in MR)

Items secondarily classified 40H05

- Bilibao, M. Abel spaces of order λ and extended ρ -duality. (Spanish. English summary) **88a:40008a**
- Abel echelon spaces and compactness in ρ -duality. (Spanish. English summary) **88a:40008b**
- Chojnacki, Wojciech Weak compactness and summability. (Russian summary) **88m:46022**
- Jajte, Ryszard On the existence of the ergodic Hilbert transform. **88h:47012**
- Jakimowski, A. (with Meyer-König, W.; Zeller, Karl) Two-norm convergence and Tauberian boundedness theorems. **88m:40013**
- Magee, J. C. (with Ruckle, W. H.) The strong topology on the dual space of a summability field and the mu-continuity problem. **88h:40005**
- Meyer-König, W. See Jakimowski, A.; et al., **88m:40013**
- Paal, Heil (with Soomer, V.) A sequence space with strong summability. (Russian. English summary) **88m:40014**
- Pehlivan, Serpil Certain classes of matrix transformations of X -valued sequence spaces. (Turkish summary) **88k:46010**
- Ruckle, W. H. See Magee, J. C., **88h:40005**
- Soomer, V. See Paal, Heil, **88m:40014**
- Totik, V. Representation of functionals via summability methods. II. **88c:46032**
- Zeller, Karl See Jakimowski, A.; et al., **88m:40013**

40J05 Summability in abstract structures

[See also 43A55, 46A35, 46B15.]

- Snyder, A. K. An embedding property of sequence spaces related to Meyer-König and Zeller type theorems. **88a:40010**
- Somasundaram, D. Entire method of summation over non-Archimedean fields. **88h:40011**

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- Totik, V. Representation of functionals via summability methods. II. **88c:46032**
- Vrabe, Ioan I. A monotone convergence theorem in abstract Banach spaces. **88d:46023**

41-XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41-00 Handbooks, dictionaries, and other reference works

- Gonska, H. H. (with Meier-Gonska, Jutta) A bibliography on approximation of functions by Bernstein-type operators (supplement 1986). **88k:41001**
- Meier-Gonska, Jutta See Gonska, H. H., **88k:41001**

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- Approximation of functions by Bernstein-type operators, supplement 1986 See Gonska, H. H., **88k:41001**

41-01 Elementary exposition; textbooks

- Brudnyi, Yu. A. (with Shalashov, V. K.) ★ Теория сплайнов. (Russian) [Theory of splines] **88b:41001**
- DeVore, Ronald A. Approximation of functions. **88c:41001**
- Gauthier, P. M. Uniform analytic approximation on the real line. **88d:41001**
- Lorentz, G. G. ★ Approximation of functions. **88j:41001**
- Malozëmov, V. N. (with Pevnyi, A. B.) ★ Полномыальные сплайны. (Russian) [Polynomial splines] **88c:41001**
- Pevnyi, A. B. See Malozëmov, V. N., **88c:41001**
- Rivlin, T. J. A view of approximation theory. **88d:41002**
- Shalashov, V. K. See Brudnyi, Yu. A., **88b:41001**
- Singh, K. L. Applications of fixed points to approximation theory. **88c:41002**
- Varga, Richard S. Scientific computation on some mathematical conjectures. **88j:41002**

Items secondarily classified 41-01

- Meinardus, G. (with Nürnberger, Günther) Approximation theory and numerical methods for delay differential equations. **88g:65080**
- Micchelli, Charles A. Algebraic aspects of interpolation. **88c:41006**
- Nürnberger, Günther See Meinardus, G., **88g:65080**

41-02 Advanced exposition (research surveys, monographs, etc.)

- Braess, Dietrich ★ Nonlinear approximation theory. **88c:41002**
- Cheney, E. Ward ★ Multivariate approximation theory. **88k:41003**
- Ill-posed problems in multivariate approximation. **88k:41002**
- Gopala Krishna, J. Some order based and probabilistic approximations. **88m:41001**
- Llavona, José G. ★ Approximation of continuously differentiable functions. **88f:41001**
- Reddy, A. R. Approximations to x^n and $|x|$ —a survey. **88j:41003**

Items secondarily classified 41-02

- Lorentz, G. G. ★ Bernstein polynomials. **88a:41006**

41-03 Historical (must also be assigned at least one classification number from Section 01)

Items secondarily classified 41-03

- Brezinski, Claude The long history of continued fractions and Padé approximants. (Polish) **88i:01007**
- Lebedev, N. A. Geometric and constructive function theory in Leningrad. **88c:01086**
- (Paskowski, Stefan) See Brezinski, Claude, **88i:01007**

41-04 Explicit machine computation and programs (not the theory of computation or programming)

Items secondarily classified 41-04

- Muller, Jean-Michel Une méthodologie du calcul hardware des fonctions élémentaires. (English summary) [A methodology for the hardware computation of elementary functions] **88h:65043**

41-06 Proceedings, conferences, etc.

- (Chui, C. K.) See Approximation theory, **88c:41003** and Topics in multivariate approximation, **88j:41007**
- (Ibragimov, I. I.) See Special problems in function theory, **88j:41006**
- (Korneichuk, N. P.) See Theory of the approximation of functions, **88b:41002** and Approximation theory and related problems in analysis and topology, **88j:41005**
- (Kudryavtsev, L. D.) See Theory of functions and related problems of analysis, **88g:41002**
- (Limaye, B. V.) See Methods of functional analysis in approximation theory, **88f:41002**
- (Lorentz, G. G.) See Proceedings: Conference on Approximation Theory, **88k:41005**
- (Meinardus, G.) See Delay equations, approximation and application, **88d:41003**
- (Micchelli, Charles A.) See Methods of functional analysis in approximation theory, **88f:41002**
- (Motornyi, V. P.) See Investigations in current problems in summation and the approximation of functions and their applications, **88k:41004**

- (Nikol'skii, S. M.) See Theory of functions and related problems of analysis, 88g:41002
 (Nürnberger, Günther) See Delay equations, approximation and application, 88d:41003
 (Pal, D. V.) See Methods of functional analysis in approximation theory, 88f:41002
 (Saff, E. B.) See Approximation theory, Tampa, 88g:41001
 (Schempp, Walter) See Multivariate approximation theory, 88d:41004
 (Schumaker, L. L.) See Approximation theory, 88e:41003 and Topics in multivariate approximation, 88j:41007
 (Stechkin, S. B.) See Theory of the approximation of functions, 88b:41002
 (Taikov, L. V.) See Application of functional analysis in approximation theory, 88j:41004
 (Telyakovskii, S. A.) See Theory of the approximation of functions, 88b:41002
 (Utreras, F. L.) See Topics in multivariate approximation, 88j:41007
 (Ward, Joseph D.) See Approximation theory, 88e:41003
 (Zeller, Karl) See Multivariate approximation theory, 88d:41004

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- Application of functional analysis in approximation theory** ★ Применение функционального анализа в теории приближений. (Russian) [Application of functional analysis in approximation theory] 88j:41004
- Approximation theory** ★ Approximation theory, V. 88e:41003
- Approximation theory and related problems in analysis and topology** ★ Теория приближений и смежные вопросы анализа и топологии. (Russian) [Approximation theory and related problems in analysis and topology] 88j:41005
- Approximation theory, Tampa** ★ Approximation theory, Tampa, 88g:41001
- Birth day:**
- Nikol'skii, S. M. ★ Теория функций и смежные вопросы анализа. (Russian) [Theory of functions and related problems of analysis] 88g:41002
- Bombay** ★ Methods of functional analysis in approximation theory. 88f:41002
- College Station, Tex.** ★ Approximation theory, V. 88e:41003
- Conference:**
- Approximation Theory** ★ Proceedings of China-U.S. Joint Conference on Approximation Theory. 88k:41005
- Methods of functional analysis in approximation theory** ★ Methods of functional analysis in approximation theory. 88f:41002
- Multivariate approximation theory** ★ Multivariate approximation theory. III. 88d:41004
- Theory of functions** ★ Теория функций и смежные вопросы анализа. (Russian) [Theory of functions and related problems of analysis] 88g:41002
- Theory of the approximation of functions** ★ Теория приближения функций. (Russian) [Theory of the approximation of functions] 88b:41002
- Delay equations, approximation and application** ★ Delay equations, approximation and application. 88d:41003
- Dnepropetrovsk** ★ Теория функций и смежные вопросы анализа. (Russian) [Theory of functions and related problems of analysis] 88g:41002
- Hangzhou** ★ Proceedings of China-U.S. Joint Conference on Approximation Theory. 88k:41005
- Investigations in current problems in summation and the approximation of functions and their applications** ★ Исследования по современным проблемам суммирования и приближения функций и их приложений. (Russian) [Investigations in current problems in summation and the approximation of functions and their applications] 88k:41004
- Kiev** ★ Теория приближения функций. (Russian) [Theory of the approximation of functions] 88b:41002
- Lecture Notes in Mathematics** ★ Approximation theory, Tampa. 88g:41001
- Mannheim** ★ Delay equations, approximation and application. 88d:41003
- Methods of functional analysis in approximation theory** ★ Methods of functional analysis in approximation theory. 88f:41002
- Multivariate approximation theory** ★ Multivariate approximation theory. III. 88d:41004
- Oberwolfach** ★ Multivariate approximation theory. III. 88d:41004
- Proceedings:**
- Conference on Approximation Theory** ★ Proceedings of China-U.S. Joint Conference on Approximation Theory. 88k:41005
- Santiago** ★ Topics in multivariate approximation. 88j:41007
- Seminar:**
- Approximation theory** ★ Approximation theory, Tampa. 88g:41001
- Special issue:**
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- Moldovan, Gr. Caractérisation des fonctions convexes à l'aide des opérateurs convolutifs positifs. [Characterization of convex functions by means of positive convolution operators] 88j:41057
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- Chen, Tian Ping Extremal problems and width of classes of functions determined by linear differential operators, and their asymptotic behavior. (Chinese) (Not in MR)
- Diener, Immo On nonuniqueness in nonlinear L_2 -approximation. 88m:41017a
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- Pinkus, A. n -widths and optimal recovery. 88c:41044
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41A55 Approximate quadratures

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41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

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41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15.]

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- Weng, Xin Long (with Huang, Da Ren) The exact asymptotic value of the N -width of the class of functions defined by a linear differential operator. (Chinese. English summary) 88g:41023
- Zhou, Xin Long The asymptotic expansion for some Hermite-Fejér interpolation polynomials. 88i:41006

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- Andrica, Dorin See Badea, Ion, 88j:41068
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- de Boor, Carl Multivariate approximation. 88j:41069

- Pawlucki, Wiesław (with Pleśniak, Wiesław) Markov's inequality and C^∞ -functions on subanalytic sets. (See 88e:00007)
- Pleśniak, Wiesław See Pawlucki, Wiesław, (88e:00007)
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- Alfeld, Peter (with Schumaker, L. L.) The dimension of bivariate spline spaces of smoothness r for degree $d \geq 4r + 1$. 88e:41025
- Bamberger, Lothar Interpolation in bivariate spline spaces. 88f:41015
- de Boor, Carl The polynomials in the linear span of integer translates of a compactly supported function. 88e:41054
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- Density of infinitely differentiable functions in Sobolev spaces $W_{p, \mathbf{R}}^{l_1, \dots, l_n}(\Omega)$ for an arbitrary open set. (Russian) 88d:41047
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- Postolica, Vasile Strict convexity and best approximation simultaneous and vectorial in linear spaces. 88h:41045
- Preocup, Radu A K -monotone best approximation operator which is neither monotone and (essentially) nor (O) -monotone. 88h:41046
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- Rao, Geetha S. (with Chandrasekaran, K. R.) The modulus of continuity of the set-valued cometric projection. 88j:41077
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- Babovsky, Hans (with Beth, Thomas; Neunzert, Helmut; Schulz-Reese, Marion) ★ Mathematische Methoden in der Systemtheorie: Fourieranalysis. (German) [Mathematical methods in system theory: Fourier analysis] 88g:93001
- Beth, Thomas See Babovsky, Hans; et al., 88g:93001
- Budak, Boris M. (with Fomin, S. V.) ★ Integrali multipli e serie. (Italian) [Multiple integrals and series] 88f:00001
- Ciesielski, Z. Haar orthogonal functions in analysis and probability. 88g:42029
- Čížek, Václav ★ Discrete Fourier transforms and their applications. 88g:94007
- Fefferman, R. Fourier analysis in several parameters. 88m:42024
- Fomin, S. V. See Budak, Boris M., 88f:00001
- Fridl, S. (with Simon, Pétér) A recent survey on some results in the Vilenkin-Fourier analysis. (See 88e:00007)
- (Jirá, Jaroslav) See Čížek, Václav, 88g:94007
- (Koretskii, Vitalii) See Budak, Boris M., 88f:00001
- Neunzert, Helmut See Babovsky, Hans; et al., 88g:93001
- Schulz-Reese, Marion See Babovsky, Hans; et al., 88g:93001
- Simon, Pétér See Fridl, S., (88e:00007)
- Ufyanov, P. L. Haar series and related questions. 88i:42040
- Vorob'ev, N. N., Jr. ★ Теория рядов. (Russian) [Theory of series] 88j:40001

42-02 Advanced exposition (research surveys, monographs, etc.)

- Ardispahić, M. Concepts of generalized bounded variation and the theory of Fourier series. 88c:42001
- Januskauskas, Algimantas ★ Кратные тригонометрические ряды. (Russian) [Multiple trigonometric series] 88b:42001
- Items secondarily classified 42-02
- Chang, Yang-Chun See Davis, Katherine Michelle, 88m:42031
- Davis, Katherine Michelle (with Chang, Yang-Chun) ★ Lectures on Bochner-Riesz means. 88m:42031
- Grünbaum, F. A. Some mathematical problems motivated by medical imaging. 88f:92006
- Schmeisser, Hans-Jürgen (with Triebel, Hans) ★ Topics in Fourier analysis and function spaces. 88k:42015a
- (with Triebel, Hans) ★ Topics in Fourier analysis and function spaces. 88k:42015b
- Triebel, Hans See Schmeisser, Hans-Jürgen, 88k:42015a and 88k:42015b

Weiss, Guido ★ Espacios generados por bloques. (Spanish) [Spaces generated by blocks] 88e:42034

42-03 Historical (must also be assigned at least one classification number from Section 01)

Lighthill, James Fourier analysis and generalised functions. (See 88i:01152)

42-04 Explicit machine computation and programs (not the theory of computation or programming)

Items secondarily classified 42-04

Aurrecochea H., Javier See Barrera Sánchez, Pablo, 88d:65185

Barrera Sánchez, Pablo (with Aurrecochea H., Javier) A matrix approach for fast algorithms in the computation of the discrete Fourier transform. (Spanish) 88d:65185

42-06 Proceedings, conferences, etc.

Items secondarily classified 42-06

(Chui, C. K.) See Topics in multivariate approximation, 88j:41007

(Haar, A.) See Conference: Haar, Alfred, memorial, 88e:00007

(Ibragimov, I. I.) See Special problems in function theory, 88j:41006

(Motornyi, V. P.) See Investigations in current problems in summation and the approximation of functions and their applications, 88k:41004

(Schumaker, L. L.) See Topics in multivariate approximation, 88j:41007

(Szabados, J.) See Conference: Haar, Alfred, memorial, 88e:00007

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(Utreras, F. L.) See Topics in multivariate approximation, 88j:41007

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Budapest ★ A. Haar memorial conference. Vol. I, II. 88e:00007

Colloquia Mathematica Societatis János Bolyai ★ A. Haar memorial conference. Vol. I, II. 88e:00007

Conference:

Haar, Alfred, memorial ★ A. Haar memorial conference. Vol. I, II. 88e:00007

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Topics in multivariate approximation ★ Topics in multivariate approximation, 88j:41007

Workshop:

Multivariate approximation ★ Topics in multivariate approximation, 88j:41007

42Axx Fourier analysis in one variable

42A05 Trigonometric polynomials, inequalities, extremal problems

Babenko, V. F. Extremal problems in approximation theory and inequalities for rearrangements. (Russian) 88c:42002

Belov, A. S. On the coefficients of trigonometric series with nonnegative partial sums. (Russian) 88f:42001

Das, B. K. See Nayak, N. N., 88g:42001

Fomin, G. A. The generalized Lebesgue inequality and some of its consequences. (Russian) 88b:42002

Ilin, V. A. (with Joó, István) Inequalities of Bessel and Hausdorff-Young-Riesz type for functions from a class of functions that are radial in a system of eigenfunctions of the Laplace operator. (Russian) 88c:42003

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Kano, Takeshi On the size of some trigonometric polynomials. 88b:42004

Korneichuk, N. P. Rearrangements and extremal properties of functions. (See 88e:00007)

Nayak, N. N. (with Das, B. K.) Real zeros of a random trigonometric polynomial. 88g:42001

Pečarić, Josip E. Note on some trigonometric identities of D. D. Adamović. (Serbo-Croatian summary) 88j:42001

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Reztsov, A. V. Erratum: "Some extremal properties of nonnegative trigonometric polynomials" [Mat. Zametki 39 (1986), no. 2, 245-252; MR 87j:42005]. (Russian) 88c:42004

Telyakovskii, S. A. Uniform boundedness of some trigonometric polynomials of several variables. (Russian) 88m:42001

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Dzhafarov, Arif S. Bernstein inequality for differential operators. (Russian summary) 88c:41011

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Kashevskii, V. V. (with Rusak, V. N.) On the problem of an estimate for the best polynomial approximations of periodic analytic functions. (Russian) 88j:42004

Oskolkov, K. I. Inequalities of the "large sieve" type and applications to problems of trigonometric approximation. (Russian summary) 88i:42004

Reimer, M. Interpolation on the sphere and bounds for the Lagrangian square sums. 88e:41012

Rusak, V. N. See Kashevskii, V. V., 88j:42004

Saffari, Bahman Structure algébrique sur les couples de Rudin-Shapiro. Problème extrémal de Salem sur les polynômes à coefficients ± 1 . (English summary) [Algebraic structure on Rudin-Shapiro pairs. Salem's extremal problem on polynomials with coefficients ± 1] 88d:30006

Shalaev, V. V. An estimate for the maximum of positive trigonometric polynomials. (Russian) (See 88k:41004)

Steinhardt, Allan See Goodrich, Robert K., 88c:42026

Yang, Yi Qun Exact estimate of a class of error bounds in radio measurement. 88m:42013

42A10 Trigonometric approximation

Bala, Renu See Ram, Babu, 88i:42006

Bardaro, Carlo (with Gori Cocchieri, Candida) On the degree of approximation for a class of singular integrals. (Italian. English summary) 88i:42001

Belinskii, E. S. Approximation of periodic functions by a "floating" system of exponentials, and trigonometric diameters. (Russian) 88j:42002

Approximation of classes of smooth functions by trigonometric polynomials with a given number of harmonics. (Russian) 88a:42001

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Berezkina, L. L. Comparison of the rows of a rational Chebyshev-Gonchar table for some 2π -periodic functions. (Russian) (Not in MR)

Chandra, Prem Approximation by Nörlund operators. (Serbo-Croatian summary) 88e:42002

Functions of classes L_p and $\text{Lip}(\alpha, p)$ and their Riesz means. 88j:42003

Degree of approximation by generalized de la Vallée-Poussin operators. 88i:42002

Chen, Quan De A note on two papers by K. Qureshi: "On the degree of approximation of functions belonging to the class $\text{Lip}(\alpha, p)$ " [Indian J. Pure Appl. Math. 13 (1982), no. 4, 466-470; MR 83f:41014] and "On the degree of approximation of functions belonging to the class of $\text{Lip} \alpha$ " [ibid. 13 (1982), no. 8, 898-903; MR 84c:41013]. (Chinese. English summary) 88g:42002

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Din' Zang Approximation of functions of several variables on a torus by trigonometric polynomials. 88h:42002

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Efimov, A. A. Approximation of continuous functions by Riesz means. (Russian) 88h:42005

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(with Khemeamin, M.; Nikolova, Ya.) Comparison theorems for Σ -permutations with restrictions on the norm in the metric of the space L . (Russian. English and Bulgarian summaries) 88m:42002

Galeev, E. M. Estimates for widths, in the sense of Kolmogorov, of classes of periodic functions of several variables with small-order smoothness. (Russian) 88e:42003

Gavriluk, V. T. Approximation in the mean of periodic functions by Fourier sums. (Russian) 88d:42002

Characterization of the saturation class $C_0^r L_\infty$. (Russian) 88c:42005

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Gottoso, Laura (with Roux, Delfina) On an approximation problem by trigonometric polynomials. 88k:42001

Gupta, R. P. (with Varma, Sushama K.) On degree of approximation by (J, p_n) operator. 88g:42003

Jiang, Gong Jian An extension of Jackson's approximation theorems. (Chinese) (Not in MR)

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Khemeamin, M. See Feschier, I., 88f:42002 and 88m:42002

Kipriyanov, I. A. (with Kulikov, A. A.) The Paley-Wiener-Schwartz theorem for the Fourier-Bessel transformation. (Russian) 88m:42003

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Kulik, A. N. The remainder term of the deviation of de la Vallée-Poussin sums on classes of differentiable functions. (Russian) 88c:42004

Kulikov, A. A. See Kipriyanov, I. A., 88m:42003

Laković, Bosa Imbedding theorems for a class of functions. (Russian) 88h:42003

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Moiseev, E. I. On the basis property of a system of sines. (Russian) 88d:42003

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- Pavlov, E. A. Characteristics for some classes of Banach spaces and their applications. (Russian) **88i:42005**
- Pimenova, L. M. See Yatsenko, N. Ya., **(88k:41004)**
- Prasad, Kanhaiya On the degree of approximation of functions belonging to the class Lip_α . **88c:42007**
- Prestin, Jürgen Trigonometrische Interpolation von Funktionen beschränkter Variation. [Trigonometric interpolation of functions with bounded variation] **88c:42007**
Best approximation in Lipschitz spaces. (See **88c:00007**)
On the approximation by de la Vallée-Poussin sums and interpolatory polynomials in Lipschitz norms. (Russian summary) **88h:42004**
- Pych-Taberska, Paulina Pointwise approximation by partial sums of Fourier series and conjugate series. **88m:42005**
- Qureshi, K. Note on the degree of approximation of a periodic function by almost Nörlund means. (Not in MR)
On the degree of approximation of functions belonging to class $Lip(\alpha, p)$. **88b:42006**
See also Chen, Quan De, **88g:42002**
- Ram, Babu (with Bala, Renu) On the degree of approximation of a class of functions by means of conjugate Fourier series. **88i:42006**
- Rempulka, Lucyna An inverse approximation problem for functions of the classes $L^p_{2\pi}$. **88j:42006**
- Roux, Delfina See Gotusso, Laura, **88k:42001**
- Rukasov, V. I. Approximation of functions of the class $C^p_{\beta, \infty}$ by the linear means of their Fourier series. (Russian) **88m:42006**
- Rusak, V. N. See Kashevskii, V. V., **88j:42004**
- Schmeisser, Hans-Jürgen (with Sickel, Winfried) On strong summability of multiple Fourier series and approximation of periodic functions. **88m:42007**
- Shadrin, A. Yu. Orders of one-sided approximations of functions in L_p -metric. (Russian summary) **88b:42007**
- Shalaev, V. V. An estimate for the maximum of positive trigonometric polynomials. (Russian) (See **88k:41004**)
- Shi, Xian Liang See Móricz, F., **88i:42003**
- Sickel, Winfried See Schmeisser, Hans-Jürgen, **88m:42007**
- Sonnevend, G. A class of sequential algorithms for spectral approximation with rational and with Haar functions. **88h:42005**
- Sorich, V. A. Approximation of periodic functions by Cesàro means (C, α) , $\alpha \geq 2$. (Russian) **88d:42004**
- Stepanets, A. I. Classification of periodic functions and the rate of convergence of their Fourier series. (Russian) **88a:42003**
Approximation by Fourier sums of functions with slowly decreasing Fourier coefficients. (Russian) **88h:42006**
- Sun, Xie Hua Note on the degree of approximation by almost Riesz means. (Chinese. English summary) **88d:42005**
- Szabados, J. See Kis, O., **88j:42005**
- Temlyakov, V. N. Approximate reconstruction of periodic functions of several variables. (Russian) **88b:42008**
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- Topolewska, Maria Pointwise approximation of functions by integrals of the Abel type. (Polish summary) **88g:42005**
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- Varma, Sushama K. See Gupta, R. P., **88g:42003**
- Wang, Kun Yang Approximation for continuous periodic function of several variables and its conjugate function by Riesz means on set of total measure. **88f:42004**
- Xie, Ting Fan On the approximation by Fourier sums. **88c:42008**
- Yatsenko, N. Ya. (with Pimenova, L. M.) Approximation of bounded 2π -periodic functions by de la Vallée-Poussin interpolation sums. (Russian) (See **88k:41004**)
- Yudin, V. A. On Jackson theorems in L_2 . (Russian) **88d:42006**
- Zhou, Xin Long The local approximation properties for trigonometric polynomials. (Chinese summary) **88m:42008**
- Zhuk, V. V. On some representations of operators considered on classes of trigonometric polynomials. (Russian. English summary) **88i:42008**
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- Babenko, V. F. Extremal problems in approximation theory and inequalities for rearrangements. (Russian) **88c:42002**
- Berrut, Jean-Paul (with Trummer, Manfred R.) Equivalence of Nyström's method and Fourier methods for the numerical solution of Fredholm integral equations. **88c:45018**
- Clutton-Brock, M. Generalized Fejér and Lanczos kernels. **88d:41034**
- Coltani, Leonardo Jackson theorems in Hardy spaces and approximation by Riesz means. **88c:42039**
- Davidchik, A. N. (with Ligin, A. A.) On the Jackson constants in the approximation of functions by linear operators. (Russian) **88h:41038**
- Dopierala, Zenon (with Rempulka, Lucyna) On some summability methods of conjugate trigonometric series. **88d:42012**
- Dzhafarov, Arif S. Bernstein inequality for differential operators. (Russian summary) **88c:41011**
- Ermakov, A. I. The rate of Hausdorff approximation of a function by polynomials and the continuity of a function. (Russian) **88h:41019**
- Fang, Gen Sun An extremal problem of generalized periodic splines and n -widths of generalized Bernoulli kernel. (Chinese) **88h:41039**
- Galeev, E. M. Linear widths of classes of periodic functions of several variables. (Russian) **88j:41059**
- Gogoladze, L. D. On the convergence of conjugate trigonometric polynomials. (Russian. English and Georgian summaries) **88c:42017**
- Gonska, H. H. (with Jetter, K.) Jackson-type theorems on approximation by trigonometric and algebraic pseudopolynomials. **88c:41013**
- Horváth, M. On the Muckenhoupt condition. **88m:42054**
- Ivanov, V. I. On a modulus of continuity in L_p . (Russian) **88h:41021**
- Jetter, K. See Gonska, H. H., **88c:41013**
- Ligin, A. A. See Davidchik, A. N., **88h:41038**
- Móricz, F. (with Rhoades, B. E.) Approximation to continuous functions by triangular summability methods. **88f:41013**
- Quarteroni, Alfio Blending Fourier and Chebyshev interpolation. **88k:41012**
- Rempulka, Lucyna The summability of the Fourier series and the Dirichlet problem. (Russian summary) **88a:42009**
See also Dopierala, Zenon, **88d:42012**
- Rhoades, B. E. See Móricz, F., **88f:41013**
- Schurer, F. (with Steutel, F. W.) Some new aspects of approximation with Jackson-type operators. **88i:41025**
- Sorich, N. N. A linear method for summation of Fourier series. (Russian) **88c:42014**
- Stepanets, A. I. Approximations on classes of (ψ, β) -differentiable functions. (Russian) **88i:42012**
- Steutel, F. W. See Schurer, F., **88i:41025**
- Taberski, Roman Approximation properties of some trigonometric polynomials. **88i:42009**
- Temlyakov, V. N. On the widths of function classes. (Russian) **88g:41022**
- Trummer, Manfred R. See Berrut, Jean-Paul, **88c:45018**
- Velikin, V. L. A limit relation for different methods of approximating periodic functions by splines and trigonometric polynomials. (Russian. English summary) **88j:41040**
- Xu, Zeng Fu See Zheng, Xue An; et al., **88h:43008**
- Yang, Yi Qun Exact estimate of a class of error bounds in radio measurement. **88m:42013**
- Young, Robert M. On the stability of exponential bases in $L^2(-\pi, \pi)$. **88m:42056**
- Zhao, He Sheng See Zheng, Xue An; et al., **88h:43008**
- Zheng, Xue An (with Xu, Zeng Fu; Zhao, He Sheng) Approximation by polynomials on compact Lie groups. I. Best uniform approximation to continuous functions. (Chinese. English summary) **88h:43008**
- 42A15 Trigonometric interpolation**
- Chen, Tian Ping On trigonometric splines. **88f:42005**
- Cotlar, M. (with Sadosky, Cora) Lifting properties, Nehari theorem and Paley lacunary inequality. **88d:42007**
- Delves, F.-J. Interpolation of odd periodic functions on uniform meshes. **88k:42003**
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- Hohl, Alexander See Forst, Wilhelm, **88a:42004**
- Kostetskii, E. A. See Zaderci, P. V., **88b:42009**
- Kuś, Stanisław On the interpolation formula and the Fourier coefficients for certain base in the space $L^2(|z|=1)$. (Russian and Polish summaries) **88c:42008**
- Kushpel', A. K. Some properties of interpolation trigonometric polynomials. (Russian) **88c:42009**
- Privalov, A. A. Uniform convergence of Lagrange interpolation processes. (Russian) **88a:42005**
- Sadosky, Cora See Cotlar, M., **88d:42007**
- Taberski, Roman Approximation properties of some trigonometric polynomials. **88i:42009**
- Zaderci, P. V. (with Kostetskii, E. A.) Asymptotic formulas for the norms of even interpolation trigonometric polynomials. (Russian) **88b:42009**
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- Privalov, A. A. A criterion for uniform convergence of Lagrange interpolation processes. (Russian) **88i:41003**
- Sanz, Jorge L. C. See Fan, Hong, **88f:92009**
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- Varma, A. K. (with Vértési, P.) Saturation of an interpolatory polynomial operator. **88b:41022**
- Vértési, P. See Varma, A. K., **88b:41022**
- (Woods, John W.) See Fan, Hong, **88f:92009**
- 42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series**
- Avdispahić, M. On the determination of the jump of a function by its Fourier series. **88f:42006**
Criteria for absolute and strong convergence of Fourier series. **88m:42009**
- Bala, Renu (with Ram, Babu) Trigonometric series with semiconvex coefficients. **88c:42009**
- Baszenski, Günter (with Delves, F.-J.) Boolean methods in Fourier approximation. **88m:42010**
- Beriš, Muharem Č. Sufficient conditions for the Fourier coefficients of periodic functions to belong to $B(p, \theta, k, \alpha)$ -classes of Besov type. (Russian. English and Serbo-Croatian summaries) **88c:42010**
- Brutman, L. Alternating trigonometric polynomials. **88b:42010**
- Chanturiya, Z. A. On the continuity of functions of the class V_p . (Russian) **88c:42010**
- Delves, F.-J. See Baszenski, Günter, **88m:42010**
- Hall, R. R. On some theorems of Hurwitz and Sheil-Small. **88b:42011**
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- Piranashvili, Z. A. Stability in the theory of the transfer of continuous information on the basis of Fourier series. (Russian) **88i:42011**
- Ram, Babu See Bala, Renu, **88c:42009**

- Shloma, L. I. Harmonic components of a function and Riemann sums. (Russian. English summary) **88f:42007**
- Stanojević, Vera L^1 -convergence of Fourier series with complex quasimonotone coefficients. (Serbo-Croatian. English summary) **88b:42012**
- Stepanets, A. I. (with Zhukina, E. I.) Imbedding conditions for certain classes. (Russian) **88d:42008**
- Approximations on classes of (φ, β) -differentiable functions. (Russian) **88i:42012**
- Waterman, Daniel Homeomorphisms of the circle and the magnitude of Fourier coefficients. (See **87j:00017**)
- Xia, Dao Xiang See Zhu, Cong Wei, **88b:42013**
- Zhu, Cong Wei (with Xia, Dao Xiang) A note on a theorem of Hardy on Fourier coefficients in Orlicz spaces. (Chinese) **88b:42013**
- Zhukina, E. I. See Stepanets, A. I., **88d:42008**

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- Bantinas, Martin Some new multipliers of Fourier series. **88b:42006**
- Fournier, John J. F. Uniformizable $A(2)$ sets and uniform integrability. **88f:43009**
- Heimberg, Gilbert Zur Abschätzung der Fourier-Koeffizienten einer Funktion mit beschränkter Schwankung. (English summary) [An estimate of the Fourier coefficients of a function of bounded variation] **88b:65033**
- Kal'nei, S. G. Convergence in the mean of Fourier-Jacobi series with quasimonotone coefficients. (Russian) **88d:42009**
- Lu, Zhi Kang On the L^1 -convergence of Fourier series. (Chinese) **88f:42010**
- Lyness, J. N. Some quadrature rules for finite trigonometric and related integrals. **88i:65041**
- Mishra, K. N. Multipliers for $[N, p]$ summability of Fourier series. **88e:42013**
- Musielak, Julian On some embedding theorems with two-modular convergence. **88b:46044**
- Pilipović, Stevan Two scales of spaces of periodic generalized functions. **88m:46049**
- Rains, Michael See Ash, J. Marshall; et al., **88b:42011**
- Savić, Vladimir N. L^1 -convergence of a conjugate Fourier series. (Serbo-Croatian. French summary) **88k:42008**
- Stepanets, A. I. Approximation by Fourier sums of functions with slowly decreasing Fourier coefficients. (Russian) **88h:42006**
- Vági, Stephen See Ash, J. Marshall; et al., **88b:42011**

42A20 Convergence of Fourier and trigonometric series

- Akita, Minoru (with Gotō, Kazuo; Kano, Takeshi) A problem of Orlicz in the Scottish Book. **88e:42011**
- Bor, Hüseyin On integrability of Rees-Stanojević sums. **88a:42006**
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- Poracká-Divít, Zita An estimate for Fourier series of functions with derivatives of bounded variation. **88f:42011**
- Ramsamujh, T. I. A comparison of the Jordan and Dini tests. **88i:42015**
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- Stepanets, A. I. The rate of convergence of Fourier series in the spaces L^p_β . (Russian) **88f:42013a**
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- (with Stepanets, N. I.) The rate of convergence of Fourier series in the metric L . (Russian) **88f:42013c**
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- Sun, Xie Hua On the rate of convergence of Fourier series for functions of HBMV. **88h:42010**
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- Zaderej, P. V. Integral representations of deviations of linear means of Fourier series on classes of differentiable periodic functions of two variables. (Russian) **88g:42007**
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- Getsadze, R. D. On the divergence in measure of multiple Fourier series. (Russian. English and Georgian summaries) **88c:42023**
- Giulini, Saverio (with Travaglini, Giancarlo) Sharp estimates for Lebesgue constants on compact Lie groups. **88d:43007**
- Mazhar, S. M. (with Al-Budaiwi, A.) An estimate of the rate of convergence of the conjugate Fourier series of functions of bounded variation. **88b:42012**
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- Sickel, Winfried See Schmeisser, Hans-Jürgen, **88m:42007**
- Solev, V. N. (with Tserkhtsvadze, K. A.) A condition for a stationary vector sequence to be a basis. (Russian. English summary) **88b:60096**
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- Tserkhtsvadze, K. A. See Solev, V. N., **88b:60096**
- Varma, A. K. (with Vértési, P.) Equiconvergence of some lacunary trigonometric interpolation polynomials. **88i:42018**
- Vértési, P. See Varma, A. K., **88i:42018**
- Volkov, V. E. Sufficient conditions for the property of being a basis in L_p and for equiconvergence with a trigonometric series of spectral expansions. (Russian) **88g:34040**
- Zhou, Xin Long The local approximation properties for trigonometric polynomials. (Chinese summary) **88m:42008**

42A24 Summability of Fourier and trigonometric series

- Avdispahić, M. Fejér's theorem for the classes \mathcal{F}_p . (Italian summary) **88m:42012**
- Bobrakova, I. L. See Novikova, N. S., **(88k:41004)**
- Bugrov, Ya. S. Linear methods of summability of Fourier series and fractional difference operators. (Russian) **88d:42011**
- Chermenskaya, V. P. See Kil'berg, E. M., **(88k:41004)**
- Dardzhanyia, K. K. A criterion for almost everywhere summability of Fourier-Laplace series with a critical exponent. (Russian. English and Georgian summaries) **88c:42012**
- Dolgopiatov, V. G. The rate of convergence of Riesz means of a Fourier series in fundamental systems of functions of the Laplace operator. (Russian) **88b:42014**
- Dopierala, Zenon (with Rempulka, Lucyna) On some summability methods of conjugate trigonometric series. **88d:42012**
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- Kalpna, K. M. (with Kathal, P. D.) (A, λ) summability of Fourier series. (Hindi. English summary) **88h:42009**
- Kathal, P. D. See Kalpna, K. M., **88h:42009**
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- Kivimäki, A. Estimation of Lebesgue constants. (Russian. English and Estonian summaries) **88b:42015**
- Kushpel', A. K. Behavior of the Lebesgue constants of linear methods of summability of Fourier series which realize an approximation that is best with respect to order. (Russian) **88j:42007**
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- Mazhar, S. M. An estimate of the rate of convergence of Nörlund means of Fourier-Stieltjes series and its conjugate series. **88h:42010**
- Narain, Shyam See Tripathi, L. M., **88b:42017** and **88k:42004**
- Novikova, N. S. (with Bobrakova, I. L.) Absolute summability of degree p of conjugate Fourier series by matrix methods. (Russian) (See **88k:41004**)
- Pachulia, N. L. An estimate of strong (C, α) mean summation methods with a variable exponent of Fourier series. (Russian. English and Georgian summaries) (Not in MR)
- Pych-Taberska, Paulina On the convergence of triangular matrix means of Fourier series. **88g:42009**
- Rempulka, Lucyna The summability of the Fourier series and the Dirichlet problem. (Russian summary) **88a:42009**
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- Sachan, M. P. Matrix summability of the derived Fourier series. **88a:42010**
- Sai, V. S. Absolute summability of Fourier series by indexed Nörlund method. **88i:42016**
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- Savić, Vladimir N. On approximation of functions $f \in W^p_0 H^p$ ($r \in \mathbb{N}$, $0 < \beta < 1$). (Serbo-Croatian summary) **88b:42016**
- Sorich, N. N. A linear method for summation of Fourier series. (Russian) **88c:42014**
- Tripathi, L. M. (with Narain, Shyam) On the Nörlund summability of conjugate derived series of the Fourier series. **88b:42017**
- (with Narain, Shyam) On uniform matrix summability of a Fourier series. (Hindi. English summary) **88k:42004**
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- Volkova, N. I. Absolute total effectiveness of degree p of the (N, p_α) method. (Russian) (See **88k:41004**)

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 Skopina, M. A. Asymptotic behavior of Lebesgue constants of certain linear methods of summation of multiple Fourier series. (Russian) 88e:42025
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42A28 Absolute convergence, absolute summability

- Dash, T. See Tripathy, N., 88f:42018 and 88k:42005
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42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

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42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

- Akhbadze, T. I. Continuity of a function of several variables in a class of generalized bounded variation. (Russian) 88f:42019
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 Heinig, H. P. See Benedetto, J. J.; et al., 88m:44001
 Hingorani, Rajesh See Fan, Hong, 88f:92009
 Igar, Satoru Interpolation of operators in Lebesgue spaces with mixed norm and its applications to Fourier analysis. 88a:46029
 Johnson, Raymond L. See Benedetto, J. J.; et al., 88m:44001
 Kaper, Tasso J. See Lyness, J. N., 88i:65155
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- Lyness, J. N. (with Kaper, Tasso J.) Calculating Fourier transforms of long-tailed functions. 88i:65155
- Méla, J.-F. Perturbations de suites presque-périodiques de nombres réels et mesures étranges sur la droite. [Perturbations of almost periodic sequences of real numbers and strange measures on the line] 88j:42016
- (Paul, Indraneel) See Fan, Hong, 88f:92009
- Saitoh, Saburo Generalizations of Paley-Wiener's theorem for entire functions of exponential type. 88f:32013
- Sanz, Jorge L. C. See Fan, Hong, 88f:92009
- Silva, Abelardo Manuel See Dodson, M.; et al., 88d:43006
- Sommariva, Paola An extension of Bernstein's theorem on stratified groups. (Italian summary) 88g:22010
- Souček, V. See Dodson, M.; et al., 88d:43006
- (Stark, Henry) See Fan, Hong, 88f:92009 and Image recovery: theory and application, 88g:94002
- Székelyhidi, L. The Fourier transform of mean periodic functions. 88c:42021
- Ullrich, David Tauberian theorems for pluriharmonic functions which are BMO or Bloch. 88e:32015
- (Woods, John W.) See Fan, Hong, 88f:92009
- Xia, Xiang Gen See Zhou, Xing Wei, 88f:94007
- Zhitkov, A. N. Estimates for trigonometric integrals. (Russian) 88c:26014
- Zhou, Xing Wei (with Xia, Xiang Gen) On a conjecture of band-limited signal extrapolation. 88f:94007

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- Image recovery: theory and application ★ Image recovery: theory and application. 88g:94002

42A45 Multipliers

- Benyamini, Yoav (with Lin, Pei Kee) Norm one multipliers on $L^p(G)$. 88c:42015
- Buntinas, Martin Some new multipliers of Fourier series. 88k:42006
- Burkholder, Donald L. Martingales and Fourier analysis in Banach spaces. 88c:42017
- Kislyakov, S. V. Interpolation inequalities for Fourier multipliers and their applications. (Russian) 88g:42013
- Klemes, I. Idempotent multipliers of $H^1(T)$. 88k:42007
- Lia, Pei Kee See Benyamini, Yoav, 88c:42015
- Muckenhoupt, Benjamin (with Wheeden, Richard L.; Young, Wo-Sang) Sufficiency conditions for L^p -multipliers with power weights. 88e:42016a
- (with Wheeden, Richard L.; Young, Wo-Sang) Sufficiency conditions for L^p multipliers with general weights. 88e:42016b
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- Sbordone, C. Rearrangement of functions and reverse Hölder inequalities. 88m:42018
- Wheeden, Richard L. See Muckenhoupt, Benjamin; et al., 88e:42016a and 88e:42016b
- Xiao, Jian Bin On three problems of Campbell and Leach. (Chinese) (Not in MR)
- Young, Wo-Sang See Muckenhoupt, Benjamin; et al., 88e:42016a and 88e:42016b

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- Bendikov, A. D. (with Pavlov, I. V.) Boundedness in $L_p(T^{\infty})$ of a class of vector multiplier operators. (Russian) 88d:47042
- Das, P. K. Multipliers into a class of analytic functions. 88k:30061
- Hare, Kathryn E. A characterization of L^p -improving measures. 88m:43004
- Jovanović, Ivan Multipliers of the space A^p . (Serbo-Croatian summary) 88j:46050
- McBride, A. C. A Mellin transform approach to fractional calculus on $(0, \infty)$. 88a:26011
- Mishra, K. N. Multipliers for $[N, p]$ summability of Fourier series. 88c:42013
- Muckenhoupt, Benjamin Transplantation theorems and multiplier theorems for Jacobi series. 88c:42035
- Pavlov, I. V. See Bendikov, A. D., 88d:47042
- Sjölin, Per A note on Littlewood-Paley decompositions with arbitrary intervals. 88c:42018
- Stepanets, A. I. Approximations on classes of (ψ, β) -differentiable functions. (Russian) 88c:42012

42A50 Conjugate functions, conjugate series, singular integrals

- Al-Budaiwi, A. See Mazhar, S. M., 88h:42012
- Babenko, V. F. Exact inequalities for the norms of conjugate functions and their applications. (Russian) 88m:42019
- Carton-Lebrun, C. An extension to BMO functions of some product properties of Hilbert transforms. 88e:42022
- Gogoladze, L. D. On the convergence of conjugate trigonometric polynomials. (Russian. English and Georgian summaries) 88c:42017
- Gurjelashvili, R. I. On the Hilbert transform. (Russian summary) 88f:42023
- Kazaryan, K. S. Weighted norm inequalities for some classes of singular integrals. 88j:42010
- Lu, Shan Zhen Estimates of weak type for conjugate Bochner-Riesz means on H^p . (Chinese) 88d:42017
- Margulis, Vladimir Arkadievich L_p -estimates for some operators connected with monotone curves. (Russian) 88j:42011
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- Osborne, M. Scott (with Warner, Garth) On the Dini calculus. 88a:42012
- Savić, Vladimir N. L^1 -convergence of a conjugate Fourier series. (Serbo-Croatian. French summary) 88k:42008
- Sjölin, Per A note on Littlewood-Paley decompositions with arbitrary intervals. 88c:42018
- Warner, Garth See Osborne, M. Scott, 88a:42012

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- Nolder, C. A. Conjugate functions and moduli of continuity. 88k:30019
- Pych-Taberska, Paulina Pointwise approximation by partial sums of Fourier series and conjugate series. 88m:42005
- Satyanarayan Rao, Arinbini On the matrix summability of a sequence of Fourier coefficients. 88d:42013
- Wojciech, Tomasz M. The Hilbert transform in weighted spaces of integrable vector-valued functions. 88e:42035
- Zaderej, P. V. On a multidimensional analogue of a result of R. Boas. (Russian) 88i:42024

42A55 Lacunary series of trigonometric and other functions; Riesz products

- Brown, Gavin (with Moran, William; Pearce, Charles E. M.) Riesz products, Hausdorff dimension and normal numbers. 88f:42024
- Katzenelson, Y. Intégrales de produits de Riesz. (English summary) [Integrals of Riesz products] 88j:42012
- Luther, Wolfram The differentiability of Fourier gap series and "Riemann's example" of a continuous, nondifferentiable function. 88d:42018
- Moran, William See Brown, Gavin; et al., 88f:42024
- Pearce, Charles E. M. See Brown, Gavin; et al., 88f:42024
- Varma, A. K. (with Vértési, P.) Equiconvergence of some lacunary trigonometric interpolation polynomials. 88i:42018
- Vértési, P. See Varma, A. K., 88i:42018

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- Cotlar, M. (with Sadosky, Cora) Lifting properties, Nehari theorem and Paley lacunary inequality. 88d:42007
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- Grow, David A class of I_0 -sets. 88i:43003a
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- Lyons, Russell La taille de certaines classes d'ensembles minces. [The size of some classes of thin sets] 88f:43010
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42A61 Probabilistic methods

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- Garling, D. J. H. Some more incorrigible functions. 88c:43007
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- Nayak, N. N. (with Das, B. K.) Real zeros of a random trigonometric polynomial. 88g:42001
- Nikishin, E. M. Random orthogonal polynomials on the circle. (Russian) 88h:42026
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42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

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- Kaufman, Robert P. Perfect sets and sets of multiplicity. 88c:42019
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- Louveau, A. See Kechris, Alexander S.; et al., 88f:03042
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42A65 Completeness of sets of functions

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42A70 Trigonometric moment problems

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42A75 Classical almost periodic functions, mean periodic functions [See also 43A60.]

- Cavani, Mario A density theorem for quasipolynomial functions. (Spanish) (See **88e:00006**)
 Ivanov, O. V. Some remarks on Bohr compactification of the real line. (Russian) **88f:42025**
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42A82 Positive definite functions

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42A85 Convolution, factorization

- Borichev, A. A. Convolution equations in spaces of sequences with exponential restriction on growth. (Russian. English summary) **88f:42026**
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42Bxx Fourier analysis in several variables

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42B05 Fourier series and coefficients

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42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

- Anslander, Louis (with Shenfeld, M.) Fourier transforms that respect crystallographic symmetries. 88b:42014
- Bhattacharya, Samir K. (with Saxena, Ashok K.) Multidimensional Fourier transform of a modified Bessel function. 88i:42025
- Bourgain, J. (with Satō, Hiroshi¹) A direct proof of van der Vaart's theorem. 88e:42028
- Chang, Kun Soo (with Johnson, Gerald W.; Skoug, D. L.) Functions in the Fresnel class. 88e:42025
- Cowling, M. G. (with Mauceri, Giancarlo) Fourier transform of surface carried measures. 88m:42029
- Drury, S. W. (with Marshall, Bernard) Fourier restriction theorems for degenerate curves. 88e:42026
- Goodrich, Robert K. (with Steinhardt, Allan) L_2 spectral estimation. 88c:42026
- Izralova, M. M. (with Lyubimova, L. S.) Approximation of a double Fourier integral by a singular integral. (Russian. Tajiki summary) 88d:42024
- Johnson, Gerald W. See Chang, Kun Soo; et al., 88e:42025
- Klilhanov, M. V. On the uniqueness of the determination of the form of an object from its images. (Russian) 88m:42030
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- Mauceri, Giancarlo See Cowling, M. G., 88m:42029
- Price, John F. Sharp local uncertainty inequalities. 88e:42029
- Sadosky, Cora (with Wheeden, Richard L.) Some weighted norm inequalities for the Fourier transform of functions with vanishing moments. 88c:42027
- Sallimov, Ya. Sh. Equiconvergence of Riesz means of expansions corresponding to an N -tuple system of exponentials and to an N -tuple Fourier integral. (Russian) 88f:42030
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- Shenfeld, M. See Anslander, Louis, 88b:42014
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- Wheeden, Richard L. See Sadosky, Cora, 88c:42027

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- Gevorkyan, G. G. On the uniqueness of Fourier integrals that converge in the metrics of L_p , $p > 0$, on each finite interval. (Russian) 88m:42015
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- Hörmander, Lars ★ Анализ линейных дифференциальных операторов с частными производными. Том I. (Russian) [The analysis of linear partial differential operators. Vol. I] 88a:35003
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- Qiu, Qing Jiu On L_p -estimates for certain Fourier integral operators. 88b:47072
- (Shubin, M. A.) See Hörmander, Lars, 88a:35003
- Solomon, Donald C. Asymptotic formulas for the dual Radon transform and applications. 88i:44006
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- Wada, Ryoko On the Fourier-Borel transformations of analytic functionals on the complex sphere. 88c:46049
- Younis, M. S. Fourier transforms of Dini-Lipschitz functions. 88b:42019

42B15 Multipliers

- Ash, J. Marshall (with Jones, Roger L.) Convergence of series conjugate to a convergent multiple trigonometric series. (French summary) 88d:42025
- Baron, Simon Certain constructive spaces and multipliers of double Fourier series. 88g:42015
- Bevor, O. V. Hörmander's theorem on Fourier multipliers. (Russian) 88e:42028
- Chang, Yang-Chun See Davis, Katherine Michelle, 88m:42031
- Dappe, Henry Quasiradial Fourier multipliers. 88j:42018
- Davis, Katherine Michelle (with Chang, Yang-Chun) ★ Lectures on Bochner-Riesz means. 88m:42031
- Gutiérrez, Cristian E. Weighted norm inequalities for multipliers. 88m:42032
- Jones, Roger L. See Ash, J. Marshall, 88d:42025
- Lizorkin, P. I. On the theory of Fourier multipliers. (Russian) 88e:42029

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- Maz'ya, V. G. (with Shaposhnikova, T. O.) ★ Мультипликаторы в пространствах дифференцируемых функций. (Russian) [Multipliers in spaces of differentiable functions] 88j:46021
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- Wheeden, Richard L. See Muckenhoupt, Benjamin; et al., 88e:42016a and 88e:42016b
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42B20 Singular integrals (Calderón-Zygmund, etc.)

- Abdullaev, S. K. (with Guliev, V. S.) Some classes of singular integrals and their applications in weighted embedding theorems in a domain with a nonsmooth boundary. (Russian) 88k:42013
- Ashirov, R. A. (with Nazarov, Abdulkhakim) Some properties of a multiple singular integral. (Russian) (See 88j:00010)
- Bruna, Joaquim (with Korenblum, Boris) A note on Calderón-Zygmund singular integral convolution operators. 88c:42028
- Chanillo, Sagan (with Christ, Michael) Weak $(1,1)$ bounds for oscillatory singular integrals. 88h:42015
- Chen, Lung-Kee On a singular integral. 88i:42026
- Christ, Michael See Chanillo, Sagan, 88h:42015
- Coifman, R. R. (with Meyer, Yves) Nonlinear harmonic analysis, operator theory and P.D.E. 88c:42030
- Córdoba, A. (with Rubio de Francia, J. L.) Estimates for Wainger's singular integrals along curves. 88d:42027
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- Fefferman, R. Singular integrals on product H^p spaces. 88f:42034
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- Ivanov, I. A. See Kipriyanov, I. A., 88j:42021
- Iwaniec, T. The best constant in a BMO-inequality for the Beurling-Ahlfors transform. 88b:42024
- Journé, Jean-Lin Calderón-Zygmund operators on product spaces. 88d:42028
- Kilbas, A. A. On the action of the Riesz potential from $L_p(\mathbb{R}^n)$ and the smoothness of integral operators. (Russian. English summary) 88d:42029
- Kipriyanov, I. A. (with Ivanov, I. A.) Riesz potentials on Lorentz spaces. (Russian) 88j:42021
- Kokilashvili, V. M. Weighted inequalities for certain integral transformations. (Russian) 88e:42031
- (with Krbeć, Miroslav) On the boundedness of anisotropic fractional maximal functions and potentials in weighted Orlicz spaces. (Russian) 88m:42033
- Korenblum, Boris See Brunna, Joaquim, 88c:42028
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- Meyer, Yves See Coifman, R. R., 88c:42030
- Murai, Takafumi Boundedness of singular integral operators of Calderón type. III. 88h:42016
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- Nazarov, Abdulkhakim See Ashirov, R. A., 88j:00010
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- Ortner, N. Analytic continuation and convolution of hypersingular higher Hilbert-Riesz kernels. (See 88e:00007)
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- Ricci, Fulvio (with Stein, E. M.) Harmonic analysis on nilpotent groups and singular integrals. I. Oscillatory integrals. 88g:42023
- Rochberg, Richard (with Semmes, Stephen) A decomposition theorem for BMO and applications. 88d:42030
- Rubin, B. S. Description and inversion of Bessel potentials by means of hypersingular integrals with weighted differences. (Russian) 88e:42032
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- Shi, Xian Liang (with Torchinsky, Alberto) A note on vector-valued singular integrals. (Chinese summary) 88m:42036
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- Ofshanetskiĭ, I. D. Construction of a hypercomplex system with respect to the Urbanik algebra. (Russian) 88e:43009

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- Davies, P. L. (with Shanbhag, D. N.) A generalization of a theorem of Deny with applications in characterization theory. 88d:62026
- Elgueta, Manuel Harmonic analysis in distally transitive graphs. (Spanish) 88c:60134
- Rosenblatt, Joseph Ergodic group actions. 88d:28024
- Ruiz, J. R. Calcul probabiliste du noyau de Poisson de la sphère. [Probability theory for the Poisson kernel of the sphere] 88c:31014
- Shanbhag, D. N. See Davies, P. L., 88d:62026
- Varopoulos, Nicholas Th. Fonctions harmoniques sur les groupes de Lie. (English summary) [Harmonic functions on Lie groups] 88f:22026
- Ye, Yang Ming Potential theory and a class of generalized distributions on locally compact abelian groups. (Chinese. English summary) 88i:31014

44-XX Integral transforms, operational calculus

{For fractional derivatives and integrals, see 26A33. For numerical methods, see 65R10.}

44-00 Handbooks, dictionaries, and other reference works

Items secondarily classified 44-00

- Apelblat, Alexander ★ Table of definite and infinite integrals. 88i:00013
- (Butkovskii, A. G.) See Martynenko, N. A., 88j:44001
- Martynenko, N. A. (with Pustynnikov, L. M.) ★ Конечные интегральные преобразования и их применение к исследованию систем с распределенными параметрами. (Russian) [Finite integral transformations and their application to the study of systems with distributed parameters] 88j:44001
- Pustynnikov, L. M. See Martynenko, N. A., 88j:44001

Unauthored items

Tables:

- Definite and infinite integrals See Apelblat, Alexander, 88i:00013

44-01 Elementary exposition; textbooks

- (Butkovskii, A. G.) See Martynenko, N. A., 88j:44001
- Martynenko, N. A. (with Pustynnikov, L. M.) ★ Конечные интегральные преобразования и их применение к исследованию систем с распределенными параметрами. (Russian) [Finite integral transformations and their application to the study of systems with distributed parameters] 88j:44001
- Pustynnikov, L. M. See Martynenko, N. A., 88j:44001

Items secondarily classified 44-01

- Benedek, A. I. (with Fernández Stacco, Edgardo; Panzone, R.) ★ Lecciones complementarias de análisis superior. (Spanish) [Complementary lectures in higher analysis] 88m:00001
- Evgrafov, M. A. Series and integral representations. (Russian) 88g:00001
- Fernández Stacco, Edgardo See Benedek, A. I.; et al., 88m:00001
- Panzone, R. See Benedek, A. I.; et al., 88m:00001

44-02 Advanced exposition (research surveys, monographs, etc.)

Items secondarily classified 44-02

- Grünbaum, F. A. Some mathematical problems motivated by medical imaging. 88f:92006
- Lavoine, J. L. See Misra, O. P., 88i:46052
- Misra, O. P. (with Lavoine, J. L.) ★ Transform analysis of generalized functions. 88i:46052
- Zemanian, A. H. ★ Generalized integral transformations. 88i:44007

44-03 Historical (must also be assigned at least one classification number from Section 01)

Items secondarily classified 44-03

- Glazke, H.-J. Jenaer Beiträge zur Theorie der Integraltransformationen. (English and Russian summaries) [Jena's contributions to the theory of integral transforms] 88i:01158
- (Heaviside, Oliver) See Petrova, S. S., 88m:01049
- Petrova, S. S. Heaviside and the development of the symbolic calculus. 88m:01049

44-04 Explicit machine computation and programs (not the theory of computation or programming)

Items secondarily classified 44-04

- Agayan, S. S. (with Gevorkyan, D. Z.) On parallel algorithms of some orthogonal transforms. 88c:65112
- Gevorkyan, D. Z. See Agayan, S. S., 88c:65112

44-06 Proceedings, conferences, etc.

- (Krein, M. G.) See Moments in mathematics, 88g:44001
- (Landau, Henry J.) See Moments in mathematics, 88g:44001

Unauthored items

Birthdays:

- Krein, M. G. ★ Moments in mathematics. 88g:44001

Meeting:

- Moments in mathematics ★ Moments in mathematics. 88g:44001
- Moments in mathematics ★ Moments in mathematics. 88g:44001
- Proceedings of Symposia in Applied Mathematics ★ Moments in mathematics. 88g:44001
- San Antonio, Tex. ★ Moments in mathematics. 88g:44001

44A05 General transforms [See also 42A38.]

- Bhargava, M. See Prasad, Y. N., (Not in MR)
- Chandhary, M. S. See Tekale, B. K., 88h:44001
- Fedoryuk, M. V. Integral transforms. (Russian) 88k:44001
- Jain, M. K. On operators associated with integral transform of N variables. (Not in MR)
- Joshi, J. M. C. See Upreti, Rita, 88k:44002
- Joshi, Narottam The generalized complex inversion theorems for integral transforms. (Hindi. English summary) (Not in MR)
- Prasad, Y. N. (with Bhargava, M.) On a generalized integral transform involving product of a classical and a modified multivariable H -functions as kernel. (Hindi. English summary) (Not in MR)
- Tekale, B. K. (with Chaudhary, M. S.) Some substitution theorems for distributional Stieltjes transformation. 88h:44001
- Upreti, Rita (with Joshi, J. M. C.) The distributional beta transform. 88k:44002

Items secondarily classified 44A05

- Cormack, A. M. Radon's problem for some surfaces in \mathbb{R}^n . 88j:44004
- Feig, Ephraim (with Greenleaf, Frederick P.) Inversion of an integral transform associated with tomography in radar detection. 88h:92009
- Greenleaf, Frederick P. See Feig, Ephraim, 88h:92009
- Helgason, S. Some results on Radon transforms, Huygens' principle and X-ray transforms. 88d:22017
- Kartashov, E. M. Generalized integral transform method for the solution of the heat-conduction equation in a region with moving boundaries. 88i:80003
- Kokilashvili, V. M. Weighted inequalities for certain integral transformations. (Russian) 88e:42031
- Strömberg, Jan-Olov (with Wheeden, Richard L.) Kernel estimates for fractional integrals with polynomial weights. 88f:26006
- Tiwari, A. K. Generalized Stieltjes transform of Banach space valued distributions. 88a:46045
- Wheeden, Richard L. See Strömberg, Jan-Olov, 88f:26006
- Zemanian, A. H. ★ Distribution theory and transform analysis. 88h:46081

44A10 Laplace transform

- Akhauri, S. K. Some theorems for a distributional generalized Laplace transform. 88g:44002
- Benedetto, J. J. (with Heinig, H. P.; Johnson, Raymond L.) Weighted Hardy spaces and the Laplace transform. II. 88m:44001
- Bhattacharya, D. K. A new approach to complex inversion formula for Laplace Stieltjes integral in one and two variables. (Not in MR)
- Bremmer, H. See van der Pol, Balh., 88i:44002
- Brychkov, Yu. A. (with Prudnikov, A. P.) Some operational calculus formulas for step functions. (Not in MR)
- Buschman, R. G. Substitution formulas for Laplace transformations. II. 88d:44001

- Dahiya, Rajbir S. (with Egvrube, M.) Two-dimensional Laplace transforms: theorems and applications. (Russian) **88i:44001**
- Dange, Snehal (with Saxena, Rajendra Kumar) On a generalized Stieltjes transform and some of its properties. **88f:44001**
- Egvrube, M. See Dahiya, Rajbir S., **88i:44001**
- Goyal, S. P. See Gupta, K. C., **88j:44002**
- Gupta, K. C. (with Goyal, S. P.) Certain results for multidimensional integral transforms with applications. **88j:44002**
- Heinig, H. P. See Benedetto, J. J.; et al., **88m:44001**
- Jiang, Zhi Hua New approximation method for inverse Laplace transforms using block-pulse functions. **88m:44002**
- Johnson, Raymond L. See Benedetto, J. J.; et al., **88m:44001**
- Joshi, J. M. C. See Joshi, R. M., **88m:44003**
- Joshi, R. M. (with Joshi, J. M. C.) Generalized Laplace transform with matrix variables. **88m:44003**
- Koranne, V. D. See Saxena, Rajendra Kumar; et al., **88g:44003**
- Malgonde, S. P. See Saxena, Rajendra Kumar; et al., **88g:44003**
- van der Pol, Balth. (with Bremmer, H.) * Operational calculus. **88i:44002**
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- Rama, A. G. Inversion of the Laplace transform. **88c:44001**
- Rebarber, R. L. A Laplace transform relevant to holomorphic semigroups. **88i:44003**
- Rusev, Pet' K. On the Laplace transform of a class of analytic functions. (Polish summary) **88h:44002**
- Saxena, Rajendra Kumar (with Koranne, V. D.; Malgonde, S. P.) On a distributional generalized Stieltjes transformation. **88g:44003**
- See also Dange, Snehal, **88f:44001**
- Wang, Ping The $P(R)$ type of the Laplace-Stieltjes transform in the right half-plane. (Chinese. English summary) **88m:44004**
- Items secondarily classified 44A10**
- Adamchik, V. S. See Kozlov, Valerii Pavlovich, **88f:80010**
- Bros, J. Transformations de Laplace sur des sous-variétés de C^n et représentations d'ondes entrantes et sortantes. [Laplace transforms on submanifolds in C^n and representations of entry and exit waves] **88m:58183**
- Datko, Richard Laplace transform techniques in control and stabilization problems. **88i:93076**
- Drozhzhinov, Yu. N. See Vladimirov, V. S.; et al., **88d:46075**
- Gabutti, Bruno (with Lepora, Paolo) The numerical performance of Tricomi's formula for inverting the Laplace transform. **88c:65157**
- Goldie, Charles M. (with Smith, Richard L.) Slow variation with remainder: theory and applications. **88f:26002**
- van der Hildén, Joseph H. M. T. * Propagation of transient elastic waves in stratified anisotropic media. **88m:73010**
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- Kozlov, Valerii Pavlovich (with Adamchik, V. S.) An inverse Laplace transformation for solving heat-conduction problems with discontinuous boundary conditions of the second kind. **88f:80010**
- Kuś, Stanisław On the completeness of the Laguerre sequences and their \mathcal{Z} transforms in the spaces l^2 and $L^2(|z|=1)$. (Russian and Polish summaries) **88i:33020**
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- Lepora, Paolo See Gabutti, Bruno, **88c:65157**
- Liu, Zhen Xiu A proposition on homogeneous second-order ordinary differential equations. (Chinese. English summary) **88i:34039**
- van de Lune, J. * An introduction to Tauberian theory: from Tauber to Wiener. **88j:40011**
- Lyubimova, L. S. See Izralova, M. M., **88d:42024**
- Nakamura, Gen (with Oharu, Shinnosuke) Estimation of multiple Laplace transforms of convex functions with an application to analytic (C_0) -semigroups. **88m:47073**
- Neubrander, F. On the relation between the semigroup and its infinitesimal generator. **88d:47056**
- Oharu, Shinnosuke See Nakamura, Gen, **88m:47073**
- Pérez Esteve, Salvador Convolution operators for the Laplace transform. (Spanish) **88m:46052**
- Smith, Richard L. See Goldie, Charles M., **88f:26002**
- Temme, Nico M. Recent problems in uniform asymptotic expansions of integrals. **88g:41029**
- Vladimirov, V. S. (with Drozhzhinov, Yu. N.; Zav'yalov, B. I.) Tauberian theorems for distributions. **88d:46075**
- Zav'yalov, B. I. See Vladimirov, V. S.; et al., **88d:46075**
- Zeinstra, R. See Korevaar, J., **88a:30080**
- Debnath, Lokenath See Pathak, Ram Shankar, **88j:44009**
- Deeba, Elias Y. See Koh, E. L.; et al., **88d:44002**
- Ditkin, V. A. Integral representations in convolution spaces. **88m:44006**
- Duggal, B. P. On the spectrum of a class of integral transforms. II. **88i:44003**
- On the spectrum of a class of integral transforms. III. An application. **88i:44004**
- Emara, S. A. (with Heinig, H. P.) Weighted norm inequalities for the Hankel- and K -transformations. **88f:44002**
- Finch, David V. (with Hertle, Alexander) The exponential Radon transform. **88h:44004**
- Frisk, George V. See Wengrovitz, Michael S.; et al., **88c:44006**
- Glaeske, H.-J. Some investigations concerning the Mehler-Fock and the Kontorovich-Lebedev transformation. **88i:44005**
- On the Wiener-Laguerre transformation. (Spanish summary) **88h:44001**
- Operational properties of a generalized Hermite transformation. **88j:44005**
- (with Runst, T.) The discrete Jacobi transform of generalized functions. **88j:44006**
- Goyal, S. P. (with Jain, R. M.) Fractional integral operator and the generalized hypergeometric functions. **88c:44002**
- Heinig, H. P. See Emara, S. A., **88f:44002**
- Hertle, Alexander See Finch, David V., **88h:44004**
- Jain, R. M. See Goyal, S. P., **88c:44002**
- Joshi, J. M. C. See Joshi, Narottam, (Not in MR)
- Joshi, Narottam (with Joshi, J. M. C.) A real inversion theorem for H -transform. (Not in MR)
- Joshi, Vinayak Gopal (with Saxena, Rajendra Kumar) A generalised convolution transformation and its inversion. **88j:44007**
- Klyuchantsev, M. I. Introduction to the theory of $(\nu_1, \dots, \nu_{n-1})$ -transformations. **88f:44003**
- Koh, E. L. (with Deeba, Elias Y.; Ali, M. A.) The Meijer transformation of generalized functions. **88d:44002**
- Kolozov, D. The Radon transform—some recent results. **88i:44005**
- Kumara Swamy, Y. S. (with Mathur, S. N.) On integral transforms. (Hindi. English summary) **88h:44005**
- Labunets, V. G. The fast Mercereau-Radon transform. (Russian) **88f:44004**
- Lebedev, N. N. (with Skalskaya, I. P.) Integral expansions related to Mehler-Fok transformations. (Russian) **88d:44003**
- Lenyuk, M. P. See Bybliv, O. Ya., **88m:44005**
- Louis, Alfred K. Tikhonov-Phillips regularization of the Radon transform. **88g:44004**
- Løve, E. R. Inversion of the Struve transform. **88d:44002**
- Luo, Cheng On weighted norm inequalities for the Hilbert transforms of functions with zero moments. (Chinese. English summary) **88j:44008**
- Madych, W. R. (with Nelson, S. A.) Reconstruction from restricted Radon transform data: resolution and ill-conditionedness. **88c:44003**
- Malgonde, S. P. (with Saxena, Rajendra Kumar) Generalized Meijer-Laplace transformation of generalized functions. **88g:44005**
- Mathur, S. N. See Kumara Swamy, Y. S., **88h:44005**
- Misra, O. P. Some results of Schwartz distribution in I_{ν}^{μ} . **88c:44002**
- Nasim, C. An operational procedure for Hankel type integrals. **88m:44007**
- Natterer, F. * The mathematics of computerized tomography. **88m:44008**
- Nelson, S. A. See Madych, W. R., **88c:44003**
- Oppenheim, Alan V. See Wengrovitz, Michael S.; et al., **88c:44006**
- Pathak, Ram Shankar (with Sahoo, H. K.) The distributional n -dimensional Hankel transformation. **88c:44003**
- (with Debnath, Lokenath) Recent developments on the Stieltjes transform of generalized functions. **88j:44009**
- See also Carmichael, Richard D., **88j:44003**
- Pilipović, Stevan Complex inversion formula for the distributional Stieltjes transform. **88i:44006**
- Radzhabov, E. L. Tauberian theorems for the generalized integral Bessel-Hankel transform. (Russian. Tajiki summary) **88m:44009**
- Runst, T. See Glaeske, H.-J., **88j:44006**
- Sahoo, H. K. See Pathak, Ram Shankar, **88c:44003**
- Saxena, Rajendra Kumar See Malgonde, S. P., **88g:44005** and Joshi, Vinayak Gopal, **88j:44007**
- Shukla, Ashit Inversion integral for a finite K -transform. (Hindi. English summary) **88i:44007**
- Skalskaya, I. P. See Lebedev, N. N., **88d:44003**
- Solomon, Donald C. Asymptotic formulas for the dual Radon transform and applications. **88i:44006**
- Takeuchi, Yu Poisson transforms of nonstandard functions. (Spanish) **88c:44004**
- Tiwari, A. K. On the generalized Stieltjes transform of distributions. **88c:44004**
- Tröger, G. * An Abelian and Tauberian theorem for the Stieltjes transform of generalized functions. **88c:44005**
- Walter, Gilbert G. (with Zayed, Ahmed I.) On the singularities of continuous Legendre transforms. **88h:44003**
- Wengrovitz, Michael S. (with Oppenheim, Alan V.; Frisk, George V.) Reconstruction of complex-valued propagating wave fields using the Hilbert-Hankel transform. **88c:44006**
- Zayed, Ahmed I. A generalized inversion formula for the continuous Jacobi transform. **88j:44010**
- See also Walter, Gilbert G., **88h:44003**
- Zemanian, A. H. * Generalized integral transformations. **88i:44007**

44A15 Special transforms (Legendre, Hilbert, etc.)

- Ahuja, Gopi A study of the distributional extended Hankel transformation. **88c:44001**
- Ali, M. A. See Koh, E. L.; et al., **88d:44002**
- Beylikin, Gregory Discrete Radon transform. **88k:44004**
- Bitsadze, A. V. The multidimensional Hilbert transformation. (Russian) (Not in MR)
- Bybliv, O. Ya. (with Lenyuk, M. P.) Hankel integral transforms of the second kind for piecewise-homogeneous segments. (Russian) **88m:44005**
- Carmichael, Richard D. (with Pathak, Ram Shankar) Asymptotic behaviour of the H -transform in the complex domain. **88j:44003**
- Condurache, Daniel Integral transforms of Fourier-type on commutative algebras. (Romanian summary) **88h:44003**
- Cormack, A. M. Radon's problem for some surfaces in R^n . **88j:44004**
- Items secondarily classified 44A15**
- Amoto, K. Jacobi polynomials associated with Selberg integrals. **88h:17016**
- Bessis, D. (with Servizi, G.; Turchetti, G.; Vaienti, S.) Mellin transforms and correlation dimensions. **88a:58120**
- (with Fournier, J.-D.; Servizi, G.; Turchetti, G.; Vaienti, S.) Mellin transforms of correlation integrals and generalized dimension of strange sets. **88m:58108**
- Borwein, David (with Cass, F. Peter; Sayre, John E.) On generalized Hausdorff matrices. **88b:40008**
- Cass, F. Peter See Borwein, David; et al., **88b:40008**
- Chaudhry, Muhammad Aslam (with Pandey, J. N.) Generalized n -dimensional Hilbert transform and applications. **88c:46037**

- (with Pandey, J. N.) The Hilbert transform of Schwartz distributions. II. **88j:46040**
- Chernov, V. G. A class of integral equations in a space of functions over a finite field. (Russian) **88i:22007**
- Fournier, J.-D. See Bessis, D.; et al., **88m:58108**
- Fukushima, Masatoshi (with Kaneko, K.) (r, p) -capacities for general Markovian semigroups. **88d:31011**
- Gabutti, Bruno (with Lepora, Paolo) A novel approach for the determination of asymptotic expansions of certain oscillatory integrals. **88g:41028**
- Gawronski, Wolfgang On the asymptotic distribution of the zeros of Hermite, Laguerre, and Jonquière polynomials. **88g:33011**
- Gurielashvili, R. I. On the Hilbert transform. (Russian summary) **88f:42023**
- Helke, Uwe Single-photon emission computed tomography by inverting the attenuated Radon transform with least-squares collocation. **88f:92007**
- Ishikawa, Shiro Hilbert transforms on one-parameter groups of operators. I, II. **88f:47037**
- Iwaniec, T. The best constant in a BMO-inequality for the Beurling-Ahlfors transform. **88b:42024**
- Kaneko, K. See Fukushima, Masatoshi, **88d:31011**
- Kazaryan, K. S. Weighted norm inequalities for some classes of singular integrals. **88j:42010**
- Kipriyanov, I. A. (with Kulikov, A. A.) The Paley-Wiener-Schwartz theorem for the Fourier-Bessel transformation. (Russian) **88m:42003**
- Koranne, V. D. See Saxena, Rajendra Kumar; et al., **88g:44003**
- Kulikov, A. A. See Kipriyanov, I. A., **88m:42003**
- Kung, Joseph P. S. Radon transforms in combinatorics and lattice theory. **88d:05024**
- Lepora, Paolo See Gabutti, Bruno, **88g:41028**
- Malgoude, S. P. See Saxena, Rajendra Kumar; et al., **88g:44003**
- Marić, V. (with Skendžić, M.; Takaci, A.) On Stieltjes transform of distributions behaving as regularly varying functions. **88d:46072**
- McBride, A. C. A Mellin transform approach to fractional calculus on $(0, \infty)$. **88a:26011**
- More, S. V. Locally convex spaces for Mellin-Hankel transformation. I. (Not in MR)
- Nagel, Alexander (with Vance, James; Wainger, Stephen; Weinberg, David A.) The Hilbert transform for convex curves in \mathbb{R}^d . **88b:42025**
- Nievergelt, Yves Exact reconstruction filters to invert Radon transforms with finite elements. **88c:65158**
- Nikolić-Despotović, Danica Stieltjes transforms of distributions. (See **88j:00018**)
- Noda, Akio Generalized Radon transform and Lévy's Brownian motion. I, II. **88g:60131**
- Palamodov, V. P. Nonlinear artifacts in tomography. (Russian) **88c:92007**
- Pandey, A. B. See Pathak, Ram Shankar, **88d:46073**
- Pandey, J. N. See Chaudhry, Muhammad Aslam, **88c:46037** and **88j:46040**
- Pathak, Ram Shankar (with Pandey, A. B.) On Hankel transforms of ultradistributions. **88d:46073**
- Pilipović, Stevan On the quasi-asymptotic behaviour of the Stieltjes transformation of distributions. **88d:46074**
- Hilbert transformation of Beurling ultradistributions. **88b:46083**
- Quinto, Eric Todd Injectivity of rotation invariant Radon transforms on complex hyperplanes in \mathbb{C}^n . **88j:53075**
- Richards, Donald St. P. Positive definite symmetric functions on finite-dimensional spaces. II. **88c:60043b**
- Positive definite symmetric functions on finite-dimensional spaces. I. Applications of the Radon transform. **88c:60043a**
- Richter, Frank H. R. On the k -dimensional Radon-transform of rapidly decreasing functions. **88a:53071**
- Sato, Ryotaro A remark on the ergodic Hilbert transform. **88k:47043**
- On the ergodic Hilbert transform for Lamperti operators. **88c:47015**
- Saxena, Rajendra Kumar (with Koranne, V. D.; Malgoude, S. P.) On a distributional generalized Stieltjes transformation. **88g:44003**
- Sayre, John E. See Borwein, David; et al., **88b:40008**
- Servizi, G. See Bessis, D.; et al., **88a:58120** and **88m:58108**
- Shatalov, V. E. See Sternin, B. Yu., **88c:58113**
- Skendžić, M. See Marić, V.; et al., **88d:46072**
- Skibinsky, Morris Principal representations and canonical moment sequences for distributions on an interval. **88c:60049**
- Sommen, F. An extension of the Radon transform to Clifford analysis. **88j:30096**
- Sternin, B. Yu. (with Shatalov, V. E.) An integral transformation of complex analytic functions. (Russian) **88c:58113**
- Takaci, A. See Marić, V.; et al., **88d:46072**
- Turchetti, G. See Bessis, D.; et al., **88a:58120** and **88m:58108**
- Valenti, S. See Bessis, D.; et al., **88a:58120** and **88m:58108**
- Vance, James See Nagel, Alexander; et al., **88b:42025**
- Wagner, Peter Zur Faltung von Distributionen. [On the convolution of distributions] **88f:46086**
- Wainger, Stephen See Nagel, Alexander; et al., **88b:42025**
- Wallace, D. L. (with Yamaguchi, Ryuji) The Radon transform on $SL(2, \mathbb{R})/SO(2, \mathbb{R})$. **88b:22011**
- Weinberg, David A. See Nagel, Alexander; et al., **88b:42025**
- Wolniewicz, Tomasz M. The Hilbert transform in weighted spaces of integrable vector-valued functions. **88c:42035**
- Yamaguchi, Ryuji See Wallace, D. L., **88b:22011**

44A20 Transforms of special functions

- Carmichael, Richard D. (with Pathak, Ram Shankar) Abelian theorems for Whittaker transforms. **88h:44006**
- Garg, Mridula A theorem involving the Meijer Bessel-function transform. **88c:44005**
- Pathak, Ram Shankar See Carmichael, Richard D., **88h:44006**
- Prabha, Km. On the boundedness of an integral transform with H -function as kernel. (Not in MR)
- Raina, R. K. The H -function transform and the moments of probability distribution functions of an arbitrary order. **88d:44004**

- Tsarenko, V. N. See Virchenko, N. A., **88j:44011**
- Virchenko, N. A. (with Tsarenko, V. N.) Some integral transformations with the function $F_2(\alpha, \beta, \gamma, \delta; x, y)$. (Russian) **88j:44011**
- Zayed, Ahmed I. On the singularities of the continuous Jacobi transform when $\alpha + \beta = 0$. **88j:44012**

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- Bhargava, M. See Prasad, Y. N., (Not in MR)
- Bhatt, K. N. (with Goyal, S. P.) On a generalized multiple transform. I. **88d:44005**
- Dange, Snehal (with Saxena, Rajendra Kumar) On a generalized Stieltjes transform and some of its properties. **88f:44001**
- Glaeske, H.-J. Operational properties of a generalized Hermite transformation. **88j:44005**
- Goyal, S. P. See Bhatt, K. N., **88d:44005**
- Koranne, V. D. See Saxena, Rajendra Kumar; et al., **88g:44003**
- Malgoude, S. P. See Saxena, Rajendra Kumar; et al., **88g:44003**
- Prasad, Y. N. (with Bhargava, M.) On a generalized integral transform involving product of a classical and a modified multivariable H -functions as kernel. (Hindi. English summary) (Not in MR)
- Saxena, Rajendra Kumar (with Koranne, V. D.; Malgoude, S. P.) On a distributional generalized Stieltjes transformation. **88g:44003**
- See also Dange, Snehal, **88f:44001**

44A30 Multiple transforms

- Ahirrao, B. R. (with More, S. V.) Abelian theorems for one sided Laplace Hardy transformations. **88f:44005**
- Bhatt, K. N. (with Goyal, S. P.) On a generalized multiple transform. I. **88d:44005**
- Goyal, S. P. See Bhatt, K. N., **88d:44005**
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- Kulikov, A. A. See Kipriyanov, I. A., **88m:42003**
- Paris, R. B. (with Wood, A. D.) Results old and new on the hyper-Bessel equation. **88k:34006**
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- Yakymiv, A. L. Asymptotics of the probability of nonextinction of critical Bellman-Harris branching processes. (Russian) **88d:60221**

44A35 Convolution

- Joshi, Narottam A real inversion theorem for A -transform. (Hindi. English summary) **88k:44008**
- Markov, I. N. A convolution of one generalized finite integral transformation of the Bessel's type. (See **88h:00002**)
- Skula, Ladislav Linear transforms and convolution. **88i:44008**
- Vũ Kim Tuấn On the factorization of integral transformations of convolution type in the space $L^2_{\mathbb{C}}$. (Russian. Armenian summary) (Not in MR)

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- Berenstein, Carlos A. (with Gay, Roger) A local version of the two-circles theorem. **88f:42044**
- Bohne, Georges Sur les algèbres de Besov pour le produit croisé. (English summary) [On Besov algebras for a twisted product] **88h:46069**
- Borichev, A. Convolution equations in spaces of sequences with exponential restriction on growth. (Russian. English summary) **88f:42026**
- Gay, Roger See Berenstein, Carlos A., **88f:42044**
- Glaeske, H.-J. Some investigations concerning the Mehler-Fock and the Kontorovich-Lebedev transformation. **88k:44005**
- Meril, Alex (with Struppa, Daniele) Convolution equations in spaces of distributions supported by cones. **88d:46071**
- Mikusinski, Jan On the theorems of Titchmarsh and Foias, and on approximation by translations. (Polish) **88m:44010**
- Struppa, Daniele See Meril, Alex, **88d:46071**
- Wagner, Peter Zur Faltung von Distributionen. [On the convolution of distributions] **88f:46086**

44A40 Calculus of Mikusiński and other similar operational calculi

- Berg, Lothar General operational calculus. **88f:44006**
- Boehme, Thomas K. See Mikusiński, Jan, **88k:44010**
- Burzyk, Józef On continuous and differentiable operator functions. (Russian summary) **88i:44009**
- Buschman, R. G. Algebraic abstractions and integral equations. (Spanish summary) **88j:44013**
- Grozdev, Sava Iv. Applications of Bernoulli and Euler operational calculi. III. (Bulgarian. English and Russian summaries) **88i:44010**
- Mieloszyk, Eligiusz Application of the operational calculus in solving partial difference equations. **88b:44004**
- Determination of the response of an abstract inertial element of the first order. (Polish. English and Russian summaries) **88k:44009**
- Mikusiński, Jan (with Boehme, Thomas K.) * Operational calculus. Vol. II. **88k:44010**
- On the theorems of Titchmarsh and Foias, and on approximation by translations. (Polish) **88m:44010**
- Pfeifer, E. A finite difference analogue to the problem of Zofia Szmjdt. (Russian and Polish summaries) **88b:44005**

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- Glaeske, H.-J. (with Hess, Albrecht) On the convolution theorem of the Mehler-Fock transform for a class of generalized functions. I. 88k:46045
Hess, Albrecht See Glaeske, H.-J., 88k:46045
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44A60 Moment problems

- Darydov, E. G. (with Ringo, N. I.) Solution of the L -problem of moments on a simplex and its applications. (Russian) 88k:44006
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- Allala, Maurice Some remarkable properties of the determination of a bounded continuous distribution by its moments. (See 88i:90005)
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44A99 Miscellaneous topics

- Mieloszyk, Elgizsz Operational calculus in algebras. 88m:44012

45-XX Integral equations

45-01 Elementary exposition; textbooks

- Fenyő, István (with Stolle, H.-W.) ★ Theorie und Praxis der linearen Integralgleichungen. 3. (German) [Theory and practice of linear integral equations. 3] 88d:45001
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Fernández Stacco, Edgardo See Benedek, A. I.; et al., 88m:00001
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Strichartz, Robert S. Realms of mathematics: elliptic, hyperbolic, parabolic, sub-elliptic. 88k:35002

45-02 Advanced exposition (research surveys, monographs, etc.)

- Items secondarily classified 45-02
(Böttcher, Albrecht) See Mikhlin, S. G., 88k:47097

- König, Hermann ★ Eigenvalue distribution of compact operators. 88j:47021
(Lehmann, Reinhard) See Mikhlin, S. G., 88k:47097
Mikhlin, S. G. (with Prössdorf, S.) ★ Singular integral operators. 88k:47097
Pietsch, Albrecht ★ Eigenvalues and s -numbers. 88j:47022a
★ Eigenvalues and s -numbers. 88j:47022b
Prössdorf, S. Einige Entwicklungsrichtungen der Theorie der linearen Integralgleichungen. [Some directions of development of the theory of linear integral equations] 88m:45002a
Einige Entwicklungsrichtungen der Theorie der linearen Integralgleichungen. [Some developmental trends in the theory of linear integral equations] 88m:45002b
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45-03 Historical (must also be assigned at least one classification number from Section 01)

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45-06 Proceedings, conferences, etc.

- (Babaev, Arif Aligeldarovich) See Singular integral operators, 88k:45001
(Imanaliyev, M. I.) See Studies in integro-differential equations, 88k:45001

Unauthored items

- Singular integral operators ★ Сингулярные интегральные операторы. (Russian) [Singular integral operators] 88k:45001
Studies in integro-differential equations ★ Исследования по интегро-дифференциальным уравнениям. Вып. 19. (Russian) [Studies in integro-differential equations. No. 19] 88k:45001

45A05 Linear integral equations

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Arabadzhyan, L. G. An integral equation of transport theory in an inhomogeneous medium. (Russian) 88m:45001
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Il'inskiy, A. S. See Guseinov, E. A., 88g:45001
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Kapur, J. N. A note on two new types of integral equations. (Not in MR)
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Jędryka, Tadeusz Marian (with Wegner, Walter) Well posed solution of Schwarzschild integral equation and its application in statistical astronomy. (Polish summary) 88k:85005
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45B05 Fredholm integral equations

- Ahner, J. F. (with Lowndes, John S.) The solution of some integral equations. 88k:45003
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- Pavel'ev, A. G. Conditions for the existence and analytic regularization of the solution of certain Fredholm equations of the first kind. (Russian) **88i:45002**
- Robinson, P. D. (with Yuen, P. K.) Bivariational methods for linear integral equations with nonsymmetric kernels. **88e:45002**
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- Srazhdinov, A. On the solvability of a system of linear Volterra integral equations of the first kind. (Russian) **88d:45005**
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- Ageev, V. M. See Petrov, V. V., **88j:45012**
- Campanella, M. (with Lo Faso, U.; Mamola, G.) Fredholm integral equations: Neumann series generation through a causal system. **88f:94009**
- Defrise, M. (with De Wilde, W. P.) Comparison of discrete solutions on the eigenvalue problem for a Fredholm operator. **88e:65150**
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- Dont, Miroslav (with Dontová, Eva) Invariance of the Fredholm radius of an operator in potential theory. (Russian and Czech summaries) **88i:31001**
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- Gohberg, I. (with Koltracht, I.; Lancaster, P.) Second order parallel algorithms for Fredholm integral equations with continuous displacement kernels. **88m:65205**
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45C05 Eigenvalue problems [See also 34B25, 35Pxx, 45P05.]

- Han, Yan Bin Positive definite kernels and their eigenvalues. **88j:45002**

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- Boiti, Marco Eigenvalue integro-differential equations and soliton equations. (See **88k:00025**)
- Defrise, M. (with De Wilde, W. P.) Comparison of discrete solutions on the eigenvalue problem for a Fredholm operator. **88e:65150**
- De Wilde, W. P. See Defrise, M., **88e:65150**
- Elstner, Detlef (with Pietsch, Albrecht) Eigenvalues of integral operators. III. **88m:47079**
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- Morozova, L. L. The structure of the eigenfunctions and eigenvalues of an integral operator with partial integrals of V. I. Romanovskii type. (Russian) **88h:45013**
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45D05 Volterra integral equations [See also 34A10.]

- Achilov, D. (with Ruzikulov, Dzh.) Boundedness of the solutions of nonlinear integro-differential equations of Volterra type with infinite limits. (Russian) (See **88k:34003**)
- Aizicovici, S. Time-dependent Volterra equations in Hilbert space. (See **88h:00005**)
- Alfawick, Barbara Monotone solutions of Volterra integral equations. **88f:45002**
- Amini, Siamak On the stability of Volterra integral equations with separable kernels. **88i:45003**
- Angell, J. S. (with Olmstead, W. E.) Singularly perturbed Volterra integral equations. **88e:45003**
- Antonova, N. A. Periodic solutions of an integral equation with piecewise-constant nonlinearity. (Russian) **88j:45003**

- Asanov, A. A system of linear Volterra integral equations of the first kind of convolution type on the half-axis. (Russian) **88g:45003**
- Convolution properties of continuous matrix functions. (Russian) **88i:45004**
- Attouch, H. (with Damlamian, Alain) Homogenization for a Volterra equation. **88a:45002**
- Banas, József An existence theorem for nonlinear Volterra integral equation with deviating argument. **88i:45005**
- Chow, Shui-Nee (with Diekmann, O.; Mallet-Paret, John) Stability, multiplicity and global continuation of symmetric periodic solutions of a nonlinear Volterra integral equation. **88e:45004**
- Corduneanu, Constantin Bielecki's method in the theory of integral equations. (Russian and Polish summaries) **88g:45004**
- A singular perturbation approach to abstract Volterra equations. (See **88h:00005**)
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- Gur'yanova, I. E. (with Myshkis, A. D.) Noncontinuable solutions of abstract integral equations of Volterra type. (Russian) **88e:45005**
- Hirano, Norimichi Nonlinear Volterra equations with positive kernels. **88k:45004**
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- Kato, Nobuyuki On the asymptotic behavior of solutions of nonlinear Volterra equations. **88a:45004**
- Khan, P. M. D. (with Pachpatte, B. G.) On quasilinear Volterra integro-differential equation in a Banach space. **88d:45006**
- Krishna, S. V. (with Satyavani, K.; Ravindranadh Babu, G. V.) Nonlinear Stieltjes-Volterra integral equations. **88e:45006**
- (with Satyavani, K.; Ravindranadh Babu, G. V.) Continuous solutions of Volterra integral equations via β -measure of noncompactness. **88k:45005**
- Kvedaras, Bronius A system of degenerate integro-differential equations. (Russian. English and Lithuanian summaries) **88a:45005**
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- Pachpatte, B. G. See Khan, P. M. D., **88d:45006** and Murge, M. G., **88e:45007**
- Papageorgiou, Nikolaos S. A quasilinear Volterra integral equation in Banach spaces. **88k:45006**
- Prüss, Jan A positivity method for linear Volterra equations. (See **88h:00005**)
- Ramazanov, M. I. On the problem of the spectrum of a class of singular Volterra integral equations. (Russian) **88i:45006**
- Ravindranadh Babu, G. V. See Krishna, S. V.; et al., **88e:45006** and **88k:45005**
- Reich, Simeon Admissible pairs and integral equations. **88a:45006**
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- Ryabov, Yu. A. Principal two-sided solutions of linear integro-differential equations of Volterra type with infinite aftereffect. (Russian) **88f:45004**
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- Satyavani, A. D. Finite-difference regularization of a Volterra integral equation of the first kind. (Russian) **88g:45006**
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- Shin, Jong Son Uniqueness and global convergence of successive approximations for solutions of functional integral equations with infinite delay. **88c:45002**
- Singh, A. N. (with Mukherjee, R. N.) Asymptotic behaviour of nonlinear Volterra equation of convolution type with perturbation. **88i:45008**
- Srazhdinov, A. On a sufficient condition for uniqueness and stability for a Volterra operator equation of the first kind. (Russian) **88g:45007**
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- Ved', Yu. A. (with Iskandarov, S.) On the uniqueness of the solution of a system of linear integral Volterra-type equations of the first kind on the half axis. (Russian) **88k:45007**
- Wang, Zhi Cheng Periodic solutions of linear nonconvolution Volterra equations. **88h:45003**
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- Aksiev, A. Z. See Bykov, Ya. V., **88i:39004**
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- Aziz-Karlieva, N. S. (with Gegel', E. I.) An approximate method for solving systems of nonlinear integral equations. (Russian) **88b:45016**
- Bainov, D. D. See Ronkov, Avram, **88i:45026**
- Brunner, H. (with van der Houwen, P. J.) ★ The numerical solution of Volterra equations. **88g:65136**
- Burton, T. A. Toward unification of periodic theory. **88i:45019**
- Bykov, Ya. V. (with Aksiev, A. Z.) On the periodic and the special periodic solutions that change sign over half the period, of the discrete analogue of the Volterra ecological equation. (Russian) **88i:39004**
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- Chen, Yu Bo. On the monotone iterative technique for nonlinear Volterra type integro-differential equation in Banach space. (See 88b:00005)
- Das, P. C. See Patel, N. K.; et al., 88g:93046
- Desch, G. W. (with Grimmer, R.) Propagation of singularities for integro-differential equations. 88b:45013
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- Eggermont, P. P. B. On monotone Abel-Volterra integral equations on the half line. 88m:65204
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- Gopalasamy, K. Global asymptotic stability in a class of Volterra-Stieltjes integro-differential systems. 88b:45016
- Grimmer, R. See Desch, G. W., 88b:45013
- Grinkevich, G. V. See Vá Kim Tuấn, 88j:45006
- Gripenberg, Gustaf. On periodic solutions of a thermostat equation. 88f:93074
- Gusarenko, S. A. A generalization of the concept of a Volterra operator. 88g:47040
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- Iskandarov, S. See Pakhyrov, Z., 88f:45011
- Ivanov, Viktor Vladimirovich (with Yatsenko, Yu. P.) The solution of systems of Volterra integral equations with unknown lower limits of integration. (Russian) 88m:65207
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- Ten Men Yan. Stable multistep methods for solving Volterra equations of the first kind. (Russian) 88i:65162
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- Kazidzhanova, D. M. Some integral equations in a bounded plane domain. (Russian. Tajiki summary) (Not in MR)
- Khaitkin, M. I. On the theory of a singular case of the Riemann boundary value problem for several pairs of functions and systems of singular integral equations. (Russian) 88d:30050
- Khimshiashvili, G. N. On the topology of invertible linear singular integral operators. (Russian) 88g:58011
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- Kilbas, A. A. (with Vasiliev, S. I.) On the solution of a multidimensional integral equation with a logarithmic kernel with radial density. (Russian) 88i:45001
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45E05 Integral equations with kernels of Cauchy type [See also 35J15.]

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- Bostanov, R. A. Application of the method of monotone operators to the investigation of the solvability of singular integral equations in some function spaces. (Russian) 88b:45008
- Solution of a nonlinear singular integral equation in Hölder classes by monotone operator methods. (Russian) 88i:45009
- Bustamante González, Jorge. See González Diéguez, Belarmino, 88j:45004
- Didenko, V. D. (with Matskul, V. N.) The reduction method for the solution of singular integral equations with conjugation. (Russian. English summary) 88i:45010

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- Oestreich, D. Das kombinierte Riemann-Hilbertsche Randwertproblem für elliptische Systeme erster Ordnung in der Ebene. [The combined Riemann-Hilbert boundary control problem for elliptic first-order systems in the plane] 88k:49010
- Zum Staudammproblem mit Drainage. (English and Russian summaries) [On the seepage flow problem with drainage] 88i:76040
- Pantashvili, V. A. A homogeneous discontinuous problem of linear conjugation in the case of a countably connected domain. (Russian) 88g:30047
- Pleshchinskaya, I. E. (with Pleshchinskii, N. B.) On the solution of the problem of diffraction of electromagnetic waves by a periodic lattice by the integral equation method. (Russian) 88c:78008
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- Rathsfield, A. Quadraturformelverfahren für eindimensionale singuläre Integralgleichungen. [Quadrature formula methods for one-dimensional singular integral equations] 88d:65182
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- See also Latukhin, Yu. D.; et al., 88f:30068
- Tutunaru, S. A. See Zolotarevskii, V. A., 88f:65241
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- Zolotarevskii, V. A. (with Tutunaru, S. A.) The collocation method for solving bisingular integral equations with Cauchy kernels. (Russian) 88f:65241
- Zvirivich, L. F. A mixed boundary value problem of Carleman type for a vector-valued function. (Russian) 88j:30090

45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35.]

- Babayan, A. O. An inhomogeneous Wiener-Hopf equation with a degenerate symbol. (Russian. English and Armenian summaries) 88e:45010
- Dos Santos, A. F. (with Teixeira, F. S.) On a class of Wiener-Hopf equations of the first kind in a Sobolev space. 88b:45006
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- de Hoog, F. R. (with Sloan, I. H.) The finite-section approximation for integral equations on the half-line. 88d:45009
- Jordan, G. S. (with Staffans, Olof J.; Wheeler, Robert L.) Convolution operators in a fading memory space: the critical case. 88a:45008
- Krein, M. G. (with Shmul'yan, Yu. L.) A supplement to our paper: "Wiener-Hopf equations whose kernels admit an integral representation in terms of exponentials" [Izv. Akad. Nauk Armyan. SSR Ser. Mat. 17 (1982), no. 4, 307-327; MR 85g:45012a]. (Russian) 88b:45007
- Mchedlishvili, N. I. Approximate solution of elliptic Wiener-Hopf integral equations. (Russian) 88e:45011
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- Ageev, V. M. See Petrov, V. V., 88j:45012
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- Bagdov, A. G. See Rakhmatulin, Kh. A.; et al., 88d:73017
- Ball, Joseph A. (with Ran, A. C. M.) Left versus right canonical Wiener-Hopf factorization. (See 88k:47038)
- Bart, H. (with Gohberg, I.; Kaashoek, M. A.) Wiener-Hopf equations with symbols analytic in a strip. (See 88k:47038)

- (with Gohberg, I.; Kaashoek, M. A.) Wiener-Hopf factorization, inverse Fourier transforms and exponentially dichotomous operators. 88d:47052
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- Gohberg, I. (with Kaashoek, M. A.; Lerer, L.; Rodman, Leiba) On Toeplitz and Wiener-Hopf operators with contourwise rational matrix and operator symbols. (See 88k:47038)
- See also Bart, H.; et al., 88d:47052; (88k:47038) and Constructive methods of Wiener-Hopf factorization, 88k:47038
- Ibadov, N. V. Convolution equations in spaces of functions of prescribed growth near the boundary. (Russian. English and Azerbaijani summaries) 88m:30107
- Kaashoek, M. A. See Bart, H.; et al., 88d:47052; (88k:47038); Gohberg, I.; et al., (88k:47038) and Constructive methods of Wiener-Hopf factorization, 88k:47038
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- Ran, A. C. M. See Ball, Joseph A., (88k:47038)
- Rodman, Leiba See Gohberg, I.; et al., (88k:47038)
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- Sitaram, Alladi See Shahshahani, M., 88e:43008
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- Stephan, Ernst P. A boundary integral equation method for three-dimensional crack problems in elasticity. 88c:73066
- Boundary integral equations for mixed boundary value problems in \mathbb{R}^3 . 88j:78011

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- Constructive methods of Wiener-Hopf factorization ★ Constructive methods of Wiener-Hopf factorization. 88k:47038

45E99 None of the above, but in this section

- Erdogan, Fazil. See Kaya, A. C., 88e:45012
- Kaya, A. C. (with Erdogan, Fazil) On the solution of integral equations with strongly singular kernels. 88e:45012

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- Abdalkhani, J. Numerical treatment of linear Volterra integral equations with weakly singular kernels. 88g:45015
- Dzhuraev, A. D. Generalization of the Bergman's kernel function. 88e:30025

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- Grabovskii, B. O. (with Korsunskii, V. M.; Odarich, O. N.) On a system of integral equations. (Russian. English summary) 88k:45012
- Korotkov, V. B. Systems of integral equations. (Russian) 88f:45008
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- Dwivedi, A. P. (with Shukla, B. D.; Shukla, S. C.) Some six integral equations involving inverse Mellin transforms. 88c:45012
- Gohberg, I. (with Kaashoek, M. A.) Minimal representations of semiseparable kernels and systems with separable boundary conditions. 88f:93039
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- Kaashoek, M. A. See Gohberg, I., 88f:93039
- Kordadze, R. A. Infinite families of operator equations in the space of null families. (Russian. English and Georgian summaries) 88d:47041
- Shukla, B. D. See Dwivedi, A. P.; et al., 88c:45012
- Shukla, S. C. See Dwivedi, A. P.; et al., 88c:45012
- Ved', Yu. A. (with Iskandarov, S.) On the uniqueness of the solution of a system of linear integral Volterra-type equations of the first kind on the half axis. (Russian) 88k:45007

45F10 Dual, triple, etc., integral and series equations

- Agal, S. N. (with Koul, C. L.) On series equations involving Jacobi polynomials. (Not in MR)
- Arora, Arun Kumar (with Koul, C. L.) A class of double convolution integral equations. 88h:45005
- Asghar Ali, S. See Gautam, G. P.; et al., 88i:45013
- Dwivedi, A. P. (with Shukla, S. C.) Dual series equations involving the product of r' Jacobi and Laguerre polynomials. 88k:45013
- Gautam, G. P. (with Asghar Ali, S.; Goyal, A. N.) A unified formal solution of N -integral equations. (Hindi. English summary) 88i:45013
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- Koul, C. L. See Arora, Arun Kumar, 88h:45005 and Agal, S. N., (Not in MR)
- Lal, Mange See Narain, Kuldeep, 88i:45014 and (Not in MR)
- Narain, Kuldeep (with Lal, Mange) Certain simultaneous dual series equations involving Laguerre polynomials. (Not in MR)
- (with Lal, Mange) Quadruple integral equations involving Meijer's G -function. (Hindi. English summary) 88i:45014
- Prabha, Km. On the formal solution of triple integral equations of two variables. (Not in MR)
- Shukla, S. C. See Dwivedi, A. P., 88k:45013
- Tuchkita, Yu. A. On the theory of dual summation equations containing $\exp(in\theta)$. (Russian. English summary) 88h:45006
- Virchenko, N. A. Dual integral equations with generalized associated Legendre functions of the first kind. (Russian. English summary) 88e:45013

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- Ahner, J. F. The exterior Dirichlet problem for the Laplace equation. 88a:35054
- Dwivedi, A. P. (with Gupta, P. G.; Shukla, S. C.) Certain triple series equations involving the product of r' Jacobi polynomials. 88i:33013
- Gupta, P. G. See Dwivedi, A. P.; et al., 88i:33013
- Shukla, S. C. See Dwivedi, A. P.; et al., 88i:33013
- Vasil'ev, B. A. Dual integral equations connected with the eigenfunctions of the Steklov problem for a conic domain. (Russian) 88j:35043

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- Penzel, Frank On the theory of generalized Abel integral equations on the half-line. 88j:45005
- Woerdeman, H. J. See Lerer, L., 88j:47015

45Gxx Nonlinear integral equations [See also 47Hxx.]

- Kosel, U. (with von Wolfersdorf, L.) Nichtlineare Integralgleichungen. [Nonlinear integral equations] 88i:45014
- von Wolfersdorf, L. See Kosel, U., 88i:45014

45G05 Singular nonlinear integral equations

- Askharov, S. N. Investigation of nonlinear singular integral equations with a Hilbert kernel by the method of monotone operators. (Russian) 88c:45005
- Ebanoidze, T. A. An existence theorem for a general nonlinear integral equation with a fixed singularity. (Russian) 88m:45006
- Grabowski, Jerzy (with Sznitko, Wanda) Investigation of a nonlinear singular equation. 88a:45009
- Norbury, J. (with Stuart, A. M.) Volterra integral equations and a new Gronwall inequality. II. The nonlinear case. 88m:45007
- Przeworska-Rolewicz, D. Generalized Bielecki theorem. (Russian and Polish summaries) 88c:45006
- Sabir Khassan Rahli On the solvability of a class of systems of nonlinear singular integral equations. (Russian) 88i:45015
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- von Wolfersdorf, L. Some recent developments in the theory of nonlinear singular integral equations. (German and Russian summaries) 88i:45016

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- Appell, Jürgen (with de Pascale, E.; Zabrejko, P. P.) An application of B. N. Sadovskij's fixed point principle to nonlinear singular equations. (German and Russian summaries) 88m:47086
- Bektenaliev, A. Existence and uniqueness of the solution of a class of integro-partial differential equations with a singularity. (Russian) 88m:45008
- Bostanov, R. A. Application of the method of monotone operators to the investigation of the solvability of singular integral equations in some function spaces. (Russian) 88k:45008
- Solution of a nonlinear singular integral equation in Hölder classes by monotone operator methods. (Russian) 88k:45009
- Faber, V. (with Wing, G. Milton) Singular values of fractional integral operators: a unification of theorems of Hille, Tamarkin, and Chang. 88b:47069
- Foltyska, Izabela An oscillation of a solution to a nonlinear integral equation. 88h:34025
- Kudish, I. I. Numerical methods for solving a class of nonlinear integral and integro-differential equations. (Russian) 88e:45019
- Lange, N. On the existence of limit cycles for an autonomous system. 88e:34051

- de Pascale, E. See Appell, Jürgen; et al., 88m:47086
- Reich, Simeon Admissible pairs and integral equations. 88a:45006
- Semenova, V. N. An initial value problem for systems of equations with a linearly transformed argument. (Russian) 88e:34116
- Wing, G. Milton See Faber, V., 88b:47069
- von Wolfersdorf, L. (with Wolska-Bochenek, J.) A mixed nonlinear Riemann-Hilbert problem for analytic functions in the half-plane. 88a:30090
- Wolska-Bochenek, J. See von Wolfersdorf, L., 88a:30090
- Zabrejko, P. P. See Appell, Jürgen; et al., 88m:47086

45G10 Other nonlinear integral equations

- Aftabizadeh, A. R. (with Leela, S.) Existence results for boundary value problems of integro-differential equations. 88g:45010
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46-01 Elementary exposition; textbooks

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- Sharma, C. S.** (with Coulson, T. J.) Spectral theory for unitary operators on a quaternionic Hilbert space. **88h:47030**

46D05 Spaces with indefinite inner product

- Bayasgalan, Ts.** Fundamental decomposability of a space with an indefinite metric. (Russian) **88h:46036**
- Turcitu, George** Ordered inner product spaces. **88h:46037**

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- Jakóbczyk, Lech** On representations of canonical commutation relations in indefinite metric quantum field theory. **88b:81067**
- Rätz, Jürg** On the characterization of Lorentz transformations by a functional equation. (Italian summary) **88h:51011**

46Exx Linear function spaces and their duals

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- Aggéri, J.-C.** Structures algébriques intervenant en analyse. [Algebraic structures in analysis] **88h:46038**
- Maž'ya, V. G.** (with Shaposhnikova, T. O.) ★ Мультипликаторы в пространствах дифференцируемых функций. (Russian) [Multipliers in spaces of differentiable functions] **88j:46021**
- Meyer, Yves** De la recherche pétrolière à la géométrie des espaces de Banach en passant par les paraproducts. [From petroleum research to Banach space geometry by way of paraproducts] **88f:46052**
- Shaposhnikova, T. O.** See Maž'ya, V. G., **88j:46021**

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- Brudnyi, Yu. A.** (with Krein, S. G.; Seménov, E. M.) Interpolation of linear operators. (Russian) **88e:46056**
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- Davis, Katherine Michelle** (with Chang, Yang-Chun) ★ Lectures on Bochner-Riesz means. **88m:42031**
- Krein, S. G.** See Brudnyi, Yu. A.; et al., **88e:46056**
- Seménov, E. M.** See Brudnyi, Yu. A.; et al., **88e:46056**

46E05 Lattices of continuous, differentiable or analytic functions

- Abasov, N. M.** (with Kusraev, A. G.) Cyclic compactification and spaces of continuous vector functions. (Russian) **88d:46035**
- Altomare, Francesco** Nets of positive operators in spaces of continuous affine functions. (Italian summary) **88k:46024**
- Belley, J.-M.** (with Lessard, F.) Treillis de fonctions réelles, compactifiés et transformations multiplicatives. (English summary) [Lattice of real-valued functions, compactifications and multiplicative transformations] **88m:46032**
- Filter, Wolfgang** Dual spaces of $C_{\infty}(X)$. **88f:46053a**
- Addendum to: "Dual spaces of $C_{\infty}(X)$ ". **88f:46053b**
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- Adamski, Wolfgang** On measures integrating all functions of a given vector lattice. **88i:46009**
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- Zakharov, Valerii Konstantinovich** On functions connected with absolute, Dedekind completion and divisible envelope. **88g:54033**

46E10 Topological linear spaces of continuous, differentiable or analytic functions

- Abanin, A. V.** On the continuation and stability of weakly sufficient sets. (Russian) **88j:46022**
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- Deeb, W.** (with Khalil, Roshdi; Marzuq, Maher M. H.) Isometric multiplication of Hardy-Orlicz spaces. **88a:46021**
- Ernst, B.** (with Schmettler, P.) On weighted spaces with a fundamental sequence of bounded sets. **88c:46028**
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- Khalil, Roshdi** See Deeb, W.; et al., **88a:46021**
- König, Heinz** Sequential and angelic properties of function spaces. **88f:46056**
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- Inductive and projective topologies. Sufficient sets and representative systems. (Russian) **88b:46044b**
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- Velichko, N. V.** Convex sets in $C_1(X)$. (Russian) **88j:46025**

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- Das, P. K.** Multipliers into a class of analytic functions. **88k:30061**
- van Eijndhoven, S. J. L.** Functional analytic characterizations of the Gelfand-Shilov spaces S_L' . **88g:46056**
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- Spaces of holomorphic mappings with asymptotic expansion in infinite dimensions. **88e:46053**
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- Kwon, E. G.** See Kim, H. O.; et al., **88g:30039**
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- Anastassiou, George A. Korovkin type inequalities in real normed vector spaces. **88e:46021**
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- Cengiz, Bahattin Continuous maps induced by isomorphisms of extremely regular function spaces. (Turkish summary) **88f:46059**
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- Gowda, M. Seetharama Möbius invariant closed subspaces of $C(T^*)$. **88h:46041**
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- Kannan, V. Two applications of Banach-Stone theorem. **88g:46037**
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- Georgiou, Tryphon T. A topological approach to Nevanlinna-Pick interpolation. **88j:30076**
- Giglioli, Antonio (with da Rocha, Galdino, Filho) Compacts associés à des sous-espaces de $C(K)$. (English summary) [Compact spaces associated with $C(K)$ subspaces] **88d:46033**
- Gluchoff, Alan On inner functions with derivative in Bergman spaces. **88j:30074**
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- Richter, Stefan Invariant subspaces in Banach spaces of analytic functions. **88m:47056**
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46E30 Spaces of measurable functions (L^p -spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, etc.)

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- Temam, Roger See Rakotoson, Jean-Michel, 88h:46067
- Touzani, A. See Castaing, Charles; et al., 88h:60116 and 88m:28006
- Valadier, M. Quelques propriétés de l'ensemble des sections continues d'une multifonction s.c.i. [Some properties of the set of continuous selections of a lower semicontinuous multifunction] 88m:49012
- See also Castaing, Charles; et al., 88h:60116 and 88m:28006
- Verbeure, A. See Allick, R.; et al., 88c:81099
- Weidner, Petra Extensions of the feasible range leaving invariant the efficient point set. 88f:90185
- Weiss, Guido See Rochberg, Richard, 88k:46082
- Witsenhausen, H. S. Minimum dimension embedding of finite metric spaces. 88f:54058
- Zhuravlev, O. V. (with Kozlov, A. A.; Py'ev, Yu. P.) On limit capabilities of measuring second-order transformers. (Russian) 88h:94008

46P05 Functional analysis over fields other than \mathbb{R} or \mathbb{C} ; non-Archimedean functional analysis [See also 12J25, 32E27.]

- Beckenstein, Edward (with Narici, Lawrence) A non-Archimedean Stone-Banach theorem. 88d:46139
- De Grande-De Kimpe, N. Non-Archimedean topologies of countable type and associated operators. 88d:46140
- Nuclear topologies on non-Archimedean locally convex spaces. 88k:46083
- Kankurikar, R. S. (with Raghunathan, T. T.) On a class of non-Archimedean function spaces. 88c:46088
- Katsaras, A. K. Bornological spaces of non-Archimedean valued functions. 88d:46141
- Martinez-Maurica, J. (with Pellón, Teresa) Preservation of closed sets under non-Archimedean operators. 88g:46087
- Narici, Lawrence See Beckenstein, Edward, 88d:46139
- Navarro, Samuel (with Seguel, Jaime) Non-Archimedean gDF-spaces and continuous functions. 88m:46088
- Oblenn, E. U. Remotal sets in ultrametric spaces. 88f:46139
- Pellón, Teresa See Martinez-Maurica, J., 88g:46087
- Raghunathan, T. T. See Kankurikar, R. S., 88c:46088
- Rangan, G. Non-Archimedean functional analysis. 88f:46140
- Seguel, Jaime See Navarro, Samuel, 88m:46088

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- Alling, Norman L. ★ Foundations of analysis over surreal number fields. 88m:26027
- Narang, T. D. Approximation relative to an ultra function. 88i:41049
- Somasundaram, D. Entire method of summation over non-Archimedean fields. 88h:40011
- Xiao, Chang Bai The Hardy-Littlewood maximal theorem for L^p -valued functions on local fields. (Chinese. English summary) 88d:42035

46Q05 Nonstandard functional analysis [See also 03Hxx.]

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- DeVito, Carl L. Applications of nonstandard theory of locally convex spaces. 88g:46005
- Levy, Mireille (with Raynaud, Y.) Ultrapuissances de $L^p(L^q)$. [Ultrapowers of $L^p(L^q)$] 88a:46014
- Mulićki-Kovačević, Vesna Conditional probability in nonstandard analysis. 88d:60015
- Raynaud, Y. See Levy, Mireille, 88a:46014

47-XX Operator theory

47-01 Elementary exposition; textbooks

- McBride, A. C. ★ Semigroups of linear operators: an introduction. 88g:47001
- Mukherjee, Arunava (with Pothoven, K.) ★ Real and functional analysis. Part B. 88k:47001
- Pothoven, K. See Mukherjee, Arunava, 88k:47001
- Sadovnichii, V. A. ★ Теория операторов. (Russian) [Operator theory] 88b:47001

Items secondarily classified 47-01

- (Artola, Michel) See Dautray, Robert, 88i:00003a and 88i:00003b
- Azizov, T. Ya. (with Iokhvidov, I. S.) ★ Основы теории линейных операторов в пространствах с индефинитной метрикой. (Russian) [Foundations of the theory of linear operators in spaces with indefinite metric] 88g:47070
- Banach, S. ★ Theory of linear operations. 88a:01065
- Bardos, Claude See Dautray, Robert, 88i:00003b
- (Bénilan, Philippe) See Dautray, Robert, 88i:00003a
- (Bernadou, M.) See Dautray, Robert, 88i:00003a
- (Bessaga, Czesław) See Banach, S., 88a:01065
- (Cessenat, Michel) See Dautray, Robert, 88i:00003a and 88i:00003b
- Dautray, Robert (with Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Tome 2. (French) [Mathematical analysis and computing for science and technology. Vol. 2] 88i:00003a
- (with Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Tome 3. (French) [Mathematical analysis and computing for science and technology. Vol. 3] 88i:00003b
- (Helle, Renate) See Smirnov, Vladimir Ivanovich, 88m:00008
- Iokhvidov, I. S. See Azizov, T. Ya., 88g:47070
- (Jellett, F.) See Banach, S., 88a:01065
- Kadison, Richard V. (with Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. II. 88d:46106
- Kantorovich, L. V. Functional analysis (basic ideas). (Russian) 88d:46001
- (Kavenoky, Alain) See Dautray, Robert, 88i:00003b
- Krall, A. M. ★ Applied analysis. 88b:00006
- (Lançon, Hélène) See Dautray, Robert, 88i:00003b
- (Lascaux, P.) See Dautray, Robert, 88i:00003b
- Lions, Jacques-Louis See Dautray, Robert, 88i:00003a and 88i:00003b
- (Mai, Brigitte) See Smirnov, Vladimir Ivanovich, 88m:00008
- Malakhovskaya, R. M. ★ Основные вариационные методы в математической физике. (Russian) [Basic variational methods in mathematical physics] 88m:00006
- Marek, Ivo (with Žitný, Karel) ★ Matrix analysis for applied sciences. Vol. 2. 88i:15001
- Markus, A. S. ★ Введение в спектральную теорию полиномиальных операторных пучков. (Russian) [Introduction to the spectral theory of polynomial operator pencils] 88d:47022
- (Mercier, Bertrand) See Dautray, Robert, 88i:00003b
- (Nédélec, J.-C.) See Dautray, Robert, 88i:00003a
- (Pelczyński, A.) See Banach, S., 88a:01065
- (Pironneau, O.) See Dautray, Robert, 88i:00003b
- (Planchard, J.) See Dautray, Robert, 88i:00003b
- Ringrose, John R. See Kadison, Richard V., 88d:46106
- (Scheurer, Bruno) See Dautray, Robert, 88i:00003a and 88i:00003b
- (Sentis, Rémi) See Dautray, Robert, 88i:00003b
- Smirnov, Vladimir Ivanovich ★ Lehrang der höheren Mathematik. Teil V. (German) [Course in higher mathematics. Part V] 88m:00008
- Žitný, Karel See Marek, Ivo, 88i:15001

47-02 Advanced exposition (research surveys, monographs, etc.)

- Anselone, P. M. Recent advances in operator approximation theory. 88g:47002

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- Ando, Tsuyoshi ★ Reproducing kernel spaces and quadratic inequalities. 88d:46002
- Azizov, T. Ya. (with Iokhvidov, I. S.) ★ Основы теории линейных операторов в пространствах с индефинитной метрикой. (Russian) [Foundations of the theory of linear operators in spaces with indefinite metric] 88g:47070
- Brudnyi, Yu. A. (with Krein, S. G.; Semenov, E. M.) Interpolation of linear operators. (Russian) 88e:46056
- Iokhvidov, I. S. See Azizov, T. Ya., 88g:47070
- König, Hermann ★ Eigenvalue distribution of compact operators. 88j:47021
- Krein, S. G. See Brudnyi, Yu. A.; et al., 88e:46056
- Pietsch, Albrecht ★ Eigenvalues and s-numbers. 88j:47022a
- ★ Eigenvalues and s-numbers. 88j:47022b
- Rolewicz, S. ★ Metric linear spaces. 88i:46004a
- ★ Metric linear spaces. 88i:46004b
- Semenov, E. M. See Brudnyi, Yu. A.; et al., 88e:46056
- Vainikko, Gennadi (with Veretennikov, A. Yu.) ★ Итерационные процедуры в некорректных задачах. (Russian) [Iteration procedures in ill-posed problems] 88c:47019
- Veretennikov, A. Yu. See Vainikko, Gennadi, 88c:47019

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- Commuting nonselfadjoint operators in Hilbert space ★ Commuting nonselfadjoint operators in Hilbert space. 88f:47001
- Lecture Notes in Mathematics ★ Commuting nonselfadjoint operators in Hilbert space. 88f:47001

47-03 Historical (must also be assigned at least one classification number from Section 01)

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Glaeske, H.-J. *Jenaer Beiträge zur Theorie der Integraltransformationen.* (English and Russian summaries) [Jena's contributions to the theory of integral transforms] 88i:01158

47-06 Proceedings, conferences, etc.

- (Agoshkov, V. I.) *See* Conjugate equations and perturbation theory in problems of mathematical physics, 88e:47003
- (Arsene, Gr.) *See* Advances in invariant subspaces and other results of operator theory, 88e:47001 and Operators in indefinite metric spaces, scattering theory and other topics, 88e:47002
- (Bart, H.) *See* Operator theory and systems, 88e:47002
- (Douglas, Ronald G.) *See* Advances in invariant subspaces and other results of operator theory, 88e:47001
- (Gohberg, I.) *See* Operator theory and systems, 88e:47002
- (Helson, Henry) *See* Operators in indefinite metric spaces, scattering theory and other topics, 88e:47002
- (Kaashoek, M. A.) *See* Operator theory and systems, 88e:47002
- (Khudyaev, S. I.) *See* Operator equations and set functions, 88g:47003
- (Maksudov, F. G.) *See* Spectral theory of operators and its applications, 88b:47002 and 88j:47001
- (Pearcy, Carl) *See* Advances in invariant subspaces and other results of operator theory, 88e:47001
- (Shutyaev, V. P.) *See* Conjugate equations and perturbation theory in problems of mathematical physics, 88e:47003
- (Szőkefalvi-Nagy, Béla) *See* Advances in invariant subspaces and other results of operator theory, 88e:47001 and Operators in indefinite metric spaces, scattering theory and other topics, 88e:47002
- (Vasilescu, F.-H.) *See* Advances in invariant subspaces and other results of operator theory, 88e:47001 and Operators in indefinite metric spaces, scattering theory and other topics, 88e:47002
- (Voiculescu, Dan) *See* Advances in invariant subspaces and other results of operator theory, 88e:47001 and Operators in indefinite metric spaces, scattering theory and other topics, 88e:47002

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- Advances in invariant subspaces and other results of operator theory ★ Advances in invariant subspaces and other results of operator theory. 88e:47001
- Amsterdam ★ Operator theory and systems. 88e:47002
- Bucharest ★ Report of the eleventh conference on operator theory. 88m:47001
- ★ Operators in indefinite metric spaces, scattering theory and other topics. 88e:47002
- Commuting nonselfadjoint operators in Hilbert space ★ Commuting nonselfadjoint operators in Hilbert space. 88e:47001
- Conference:
- Operator theory ★ Advances in invariant subspaces and other results of operator theory. 88e:47001
- ★ Report of the eleventh conference on operator theory. 88m:47001
- ★ Operators in indefinite metric spaces, scattering theory and other topics. 88e:47002
- Conjugate equations and perturbation theory in problems of mathematical physics ★ Сопряженные уравнения и теория возмущений в задачах математической физики. (Russian) [Conjugate equations and perturbation theory in problems of mathematical physics] 88e:47003
- Herculane ★ Advances in invariant subspaces and other results of operator theory. 88e:47001
- Lecture Notes in Mathematics ★ Commuting nonselfadjoint operators in Hilbert space. 88e:47001
- Lectures:
- Toeplitz ★ Toeplitz lectures 1987. 88e:47001
- Operator equations and set functions ★ Операторные уравнения и функции множеств. (Russian) [Operator equations and set functions] 88g:47003
- Operator theory and systems ★ Operator theory and systems. 88e:47002
- Operators in indefinite metric spaces, scattering theory and other topics ★ Operators in indefinite metric spaces, scattering theory and other topics. 88e:47002
- Spectral theory of operators and its applications ★ Спектральная теория операторов и ее приложения. Вып. 7. (Russian) [Spectral theory of operators and its applications. No. 7] 88b:47002
- ★ Спектральная теория операторов и ее приложения. Вып. 8. (Russian) [Spectral theory of operators and its applications. No. 8] 88j:47001
- Tel-Aviv ★ Toeplitz lectures 1987. 88e:47001
- Timisoara ★ Advances in invariant subspaces and other results of operator theory. 88e:47001
- Workshop:
- Operator theory and its applications ★ Operator theory and systems. 88e:47002

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- (Butković, D.) *See* Functional analysis, 88e:46001
- (Cordes, H. O.) *See* Pseudodifferential operators, 88d:35008
- (Gill, Tepper L.) *See* Nonlinear semigroups, partial differential equations and attractors, 88b:35011
- (Gohberg, I.) *See* Schur methods in operator theory and signal processing, 88d:00006
- (Gramsch, B.) *See* Pseudodifferential operators, 88d:35008
- (Kraljević, H.) *See* Functional analysis, 88e:46001
- (Karepa, S.) *See* Functional analysis, 88e:46001
- (Schur, I.) *See* Schur methods in operator theory and signal processing, 88d:00006

- (Shtaus, A. V.) *See* Functional analysis, 88j:00006
- (Widom, H.) *See* Pseudodifferential operators, 88d:35008
- (Zachary, Woodford W.) *See* Nonlinear semigroups, partial differential equations and attractors, 88b:35011

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Conference:

- Functional analysis ★ Functional analysis. II. 88e:46001
- Pseudodifferential operators ★ Pseudodifferential operators. 88d:35008
- Dubrovnik ★ Functional analysis. II. 88e:46001
- Functional analysis ★ Функциональный анализ. Вып. 26. (Russian) [Functional analysis. No. 26] 88j:00006
- ★ Functional analysis. II. 88e:46001
- Lecture Notes in Mathematics ★ Nonlinear semigroups, partial differential equations and attractors. 88b:35011
- ★ Pseudodifferential operators. 88d:35008
- ★ Functional analysis. II. 88e:46001
- Nonlinear semigroups, partial differential equations and attractors ★ Nonlinear semigroups, partial differential equations and attractors. 88b:35011
- Oberwolfach ★ Pseudodifferential operators. 88d:35008
- Pseudodifferential operators ★ Pseudodifferential operators. 88d:35008
- Schur methods in operator theory and signal processing ★ I. Schur methods in operator theory and signal processing. 88d:00006
- Symposium:
- Nonlinear semigroups, partial differential equations and attractors ★ Nonlinear semigroups, partial differential equations and attractors. 88b:35011
- Washington, D.C. ★ Nonlinear semigroups, partial differential equations and attractors. 88b:35011

47Axx Single linear operators: general theory

47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

- Allakhverdiev, Dzh. È. Erratum: "Necessary and sufficient conditions for continuity and the closability of linear operators" [Dokl. Akad. Nauk SSSR 278 (1984), no. 6, 1289-1290; MR 86g:47001]. (Russian) 88j:47002
- Corbacho Rosas, Eusebio (with Martínez Martínez, Antón) Partially isometric operators in a Banach space. (Spanish) 88d:47001
- Evard, Jean-Claude Conditions for a vector subspace $E(t)$ and for a projector $P(t)$ not to depend on t . 88e:47004
- Fenyő, István (with Paparoni, Eva) On an approximation of generalized inverses. 88b:47003
- Harte, Robin Almost exactness in normed spaces. 88g:47004
- Hochwald, Scott H. The uniqueness of the adjoint operation. II. 88j:47003
- Hsiang, Wen Han A revision on the transpose of linear maps. 88g:47005
- Hwang, Jun Shung On a problem of Halmos about invertible operators. 88d:47002
- Katznelson, Y. (with Tzafriri, L.) On power bounded operators. 88e:47006
- Martínez Martínez, Antón *See* Corbacho Rosas, Eusebio, 88d:47001
- Mirzakhanyan, È. A. Some properties of linear mappings belonging to a class of continuous mappings of subsets of a Hilbert space. (Russian. Armenian summary) 88e:47007
- Nashed, M. Z. Inner, outer, and generalized inverses in Banach and Hilbert spaces. 88g:47006
- Nikaido, Gyokai Product of linear operators with closed range. 88e:47008
- Okazaki, Yoshiaki Boundedness of closed linear operator T satisfying $R(T) \subset D(T)$. 88e:47003
- Pan, Xing Bin Ascents of eigenvalues of b.c.c. operators. 88e:47002
- Paparoni, Eva *See* Fenyő, István, 88b:47003
- Poch, G. On products of contractions in Hilbert space and its applications in linear operator theory and in representation theory. 88m:47002
- Rimsha, È. A. Combined splines. (Russian. English summary) 88h:47001
- Shekhtman, Boris On some problems of M. Z. Nashed on outer inverses. 88m:47003
- Slyusarchuk, V. E. Invertibility of Poisson stable functional operators. (Russian) (See 88g:00018)
- Sun, Chuan Kun The δ -number of a linear operator and the essential minimum modulus. (Chinese) 88e:47003
- Tzafriri, L. *See* Katznelson, Y., 88e:47006
- Wang, Yan Wen On two questions about operators densely defined on Hilbert space. (Chinese. English summary) 88b:47004
- Yakovlev, A. A. Positive invertibility of a linear completely continuous selfadjoint operator. (Russian) 88d:47003
- Zaharopol, Radu The modulus of a regular linear operator and the "zero-two" law in L^p -spaces ($1 < p < +\infty$, $p \neq 2$). 88e:47005
- Zubov, V. M. A generalized inverse operator and a class of ill-posed problems. (Russian) 88i:47001

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- Berkani, M. (with Esterle, J.) Banach algebras with left sequential approximate identities close to their square. 88i:46063
- Delves, F.-J. Fourier series and right invertible operators. 88b:42020
- Esterle, J. *See* Berkani, M., 88i:46063
- Ge, Li Ming *See* Han, De Guang, 88g:47093
- Hadwin, D. W. (with Ong, Sing-Cheong) On algebraic and para-reflexivity. 88b:47013
- Han, De Guang (with Ge, Li Ming) A topological result on Banach operator spaces and a distance formula. (Chinese. English summary) 88g:47093
- Harte, Robin Regular boundary elements. 88d:46088

- Holá, Lubica (with Kupka, Ivan A. K.) Closed graph and open mapping theorems for linear relations. (Russian and Slovak summaries) 88d:46009
- Krikeles, Basil C. Tensor products of multilinear operators. 88j:47038
- Kupka, Ivan A. K. See Holá, Lubica, 88d:46009
- Lin, Xi See Qu, Rui Bin, 88c:47075
- Lu, Shi Jie On the range of a nilpotent generalized derivation. 88d:47045
- Mbekhta, Mostafa Décomposition de Kato généralisée. (English summary) [Generalized Kato decomposition] 88f:47011
- Möller, Manfred Necessary conditions for normal solvability in duals of LF-spaces. 88m:46010
- Ong, Sing-Cheong See Hadwin, D. W., 88b:47013
- Pap, Endre The adjoint operator and K -convergence. (Serbo-Croatian summary) 88g:46008
- Przeworska-Rolewicz, D. (with Rolewicz, S.) The only continuous Volterra right inverses in $C_0[0, 1]$ of the operator d/dt are \int_a^x . 88m:47055
- Qu, Rui Bin (with Lin, Xi) Bounded linear operators and absolutely continuous operators in probabilistic normed linear spaces. (Chinese. English summary) 88c:47075
- Radyno, Ya. V. Spaces of Nikol'skii-Besov type in the operator calculus. (Russian. English summary) 88d:47011
- Rolewicz, S. See Przeworska-Rolewicz, D., 88m:47055
- Shen, You Xiang See Wei, Guo Qiang, 88f:47018
- Slyusarchuk, V. E. On the theory of invertibility of almost periodic operators. (Russian) 88j:47043
- Speck, Frank-Olme Least squares approximate and least norm solutions of paired singular equations. 88c:45017
- Terent'ev, A. G. A remark on the closedness of linear functional-differential operators. (Russian) 88m:47058
- Wei, Guo Qiang (with Shen, You Xiang) The generalized p -normal operators and p -hyponormal operators on Banach space. 88f:47018

47A10 Spectrum, resolvent

- Arora, Pramod See Arora, S. C., 88c:47004
- Arora, S. C. (with Arora, Pramod) On operators satisfying $\operatorname{Re} \sigma_\alpha(T) = \sigma_\alpha(\operatorname{Re} T)$. 88c:47004
- Beauzamy, B. Opérateurs de rayon spectral strictement supérieur à 1. (English summary) [Operators with spectral radius strictly greater than 1] 88d:47004
- Brown, Dean R. (with Buoni, J. J.) On the spectrum of operator matrices. (Serbo-Croatian summary) 88g:47007
- Browne, Patrick J. See Farenick, D. R., 88m:47004
- Buoni, J. J. See Brown, Dean R., 88g:47007
- Chen, Xiao Man The joint spectrum of a set of noncommuting selfadjoint operators. (Chinese) 88b:47005
- Choda, Hisashi (with Fujii, Masatoshi; Nakamura, Masahiro) The Krylov-Weinstein theorem for nonnormal operators. 88c:47005
- Curto, Raul E. (with Fialkow, Lawrence A.) The spectral picture of (L_A, R_B) . 88c:47006
- Daneš, Josef On local spectral radius. (Russian and Czech summaries) 88j:47004
- Du, Hong Ke Some remarks on the polar spectral resolution of a bounded linear operator. (Chinese. English summary) 88b:47006
- Farenick, D. R. (with Browne, Patrick J.) Geršgorin theory and the definiteness of determinantal operators. 88m:47004
- Fedik, M. N. See Lyantse, V. E., 88b:47002
- Fialkow, Lawrence A. See Curto, Raul E., 88c:47006
- Fujii, Masatoshi See Choda, Hisashi; et al., 88c:47005
- Herrero, Domingo A. Similarity-invariant continuous functions on $\mathcal{L}(\mathcal{H})$. 88d:47005
- Hu, Shan Wen Commuting n -tuples of closed operators which possess spectral capacity. 88k:47002
- Karaev, M. T. See Vasyunin, V. I., 88k:47004
- Karapetyants, N. K. On the connection between the Noethericity and the spectrum of an operator acting in a Banach space and in a subspace. (Russian. English and Georgian summaries) 88c:47009
- Liu, Qing Rong (with Sun, Wan Gui) On the spectral radii of bounded linear operators. (Chinese. English summary) 88k:47003
- Lyantse, V. E. (with Fedik, M. N.) Properties of operators generated by sesquilinear forms. (Russian. English summary) 88b:47002
- Nakamura, Masahiro See Choda, Hisashi; et al., 88c:47005
- Omladić, Matjaž Spectra of the difference and product of projections. 88a:47001
- Ostrovskii, M. I. Diminishing the spectrum of an operator as a result of extension. (Russian) 88f:47004
- Puljavev, V. F. The spectrum of continuous linear operators. (Russian) 88b:47007
- Rakotović, Vladimir On a class of operators. (Serbo-Croatian summary) 88a:47002a
- On a class of operators. II. (Serbo-Croatian summary) 88a:47002b
- Weyl's theorem for a bundle of operators. (Serbo-Croatian summary) 88c:47007
- Scroggs, James E. Order of singularity applied to linear operators. 88j:47005
- Slavova, Slavka K. Spectra of linear transformers. 88b:47008
- Spectra of linear transformers. II. 88b:47009
- Sun, Wan Gui See Liu, Qing Rong, 88k:47003
- Tită, N. On the radius of the essential spectrum. (Romanian summary) 88d:47006
- Topuz, E. The characteristic spectrum associated to a linear discrete system. (Romanian summary) 88c:47008
- Vagabov, N. G. On the spectrum of a contraction of operator functions in a Banach space. (Russian) 88b:47003
- Vasilescu, F.-H. Spectral theory in quotient Fréchet spaces. I. 88h:47004
- Vasyunin, V. I. (with Karaev, M. T.) The multiplicity of the spectrum of some contractions. (Russian. English summary) 88k:47004
- Verma, Ram U. Tensor products and the joint essential spectra. 88h:47005
- Identity of Harte, Taylor and commutant spectra. 88g:47008
- Wrobel, Volker Spectral properties of operators generating Fréchet-Montel spaces. 88a:47003
- Zemánek, Jaroslav Compressions and the Weyl-Browder spectra. 88f:47005

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- Ballik, G. I. On linear operator equations in normed operator ideals. I. (Russian. English and Bulgarian summaries) 88k:47020
- Baskakov, A. G. A theorem on splitting of an operator and some related problems in the analytic theory of perturbations. (Russian) 88a:47015
- Ben-Artzi, A. On approximation spectrum of bounded selfadjoint operators. 88b:47030
- Berg, I. David (with Davidson, Kenneth R.) Almost commuting matrices and the Brown-Douglas-Fillmore theorem. 88a:47022
- Böttcher, Albrecht (with Silbermann, Bernd) Local spectra of approximate identities, cluster sets, and Toeplitz operators. (German summary) 88c:47049
- Boyadzhiev, Khristo N. Sinclair type inequalities for the local spectral radius and related topics. 88b:47009
- Burlando, Laura Finite peripheral diagonalization and peripherally compact operators. (Italian. English summary) 88c:47037
- Caselles, Vicent On the peripheral spectrum of positive operators. 88j:47054
- Curto, Raul E. (with Fialkow, Lawrence A.) Elementary operators with H^∞ -symbols. 88j:47016
- Davidson, Kenneth R. See Berg, I. David, 88a:47022
- Erovenko, V. A. Continuity of the spectrum of certain classes of operators. (Russian. English summary) 88a:47023
- The Weyl theorem on the essential spectrum for k -paranormal operators. (Russian. English summary) 88c:47041
- Fainshtein, A. S. See Isaev, G. A., 88m:47028
- Fialkow, Lawrence A. See Curto, Raul E., 88j:47016
- Ginzburg, Yu. P. (with Tarasenko, A. A.) On the singular parts of analytic contraction operator-valued functions. (Russian. English summary) 88j:47014
- Hadwin, D. W. (with Ong, Sing-Cheong) On algebraic and para-reflexivity. 88b:47013
- Hou, Jin Chuan On the generalized analytic quasihyponormal operators. (Chinese. English summary) 88a:47024
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- Karakhanyan, M. I. Almost-periodicity in the spectral analysis of normal operators. (Russian. Armenian summary) **88c:47083**
- Lamos D., Henry The generalized Schur lemma. (Spanish) (Not in MR)
- Marshall, Erich On the functional-calculus of nonquasianalytic groups of operators and cosine functions. **88c:47086**
- Muhly, Paul S. See Berkson, Earl, et al., **88c:47082**
- Radyno, Ya. V. Vectors of exponential type and differential equations in a scale of Banach spaces. (Russian) **88c:47087**
- Yagi, Atsushi Applications of the purely imaginary powers of operators in Hilbert spaces. **88g:47087**

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- Atkin, C. J. The Finsler geometry of groups of isometries of Hilbert space. **88a:58018**
- Boydzhiev, Kristo N. An asymptotic Fuglede theorem for generators of C_0 groups. **88h:47031**
- Hochwald, Scott H. The uniqueness of the adjoint operation. II. **88j:47003**
- Troitskii, E. V. Contractibility of the complete general linear group of the C^* -Hilbert module $l_2(A)$. (Russian) **88h:58015**
- Vesentini, Edoardo Semigroups of holomorphic isometries. **88h:47064**

- Vidybida, A. K. An evolution operator for the hierarchy of Bogolyubov kinetic equations. Lattice systems. (Russian. English summary) **88f:82011**
- van Winter, Claisine Wave operators and similarity of certain nonnormal one-parameter groups. **88a:47011**

47D15 Linear spaces of operators

- Azoff, Edward A. On finite rank operators and preannihilators. **88a:47041**
- Braunns, Hans-Andreas Multi-ideals and operator ideals. (German and Russian summaries) **88c:47088**
- Chevreaux, Bernard (with Esterle, J.) Pettis' lemma and topological properties of dual algebras. **88g:47088**
- Dăneş, Nicolae P -convexity (P -concavity) of some Banach lattices of operators. **88i:47026**
- Esterle, J. See Chevreaux, Bernard, **88g:47088**
- Grażlewicz, Ryszard Exposed points of the unit ball of $\mathcal{L}(H)$. **88e:47084**
- Hollstein, Ralf An extension and lifting theorem for bounded linear mappings in locally convex spaces and some applications. **88h:47065**
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- Bourbaki, Nicolas \ast Topological vector spaces. Chapters 1–5. **88g:46002**
- Dierolf, Susanne On spaces of continuous linear mappings between locally convex spaces. **88b:46014**
- Ding, Guang Gui Isometric and almost isometric operators of $B(L^1 \rightarrow L^1)$. **88h:47056**
- (Eggleston, H. G.) See Bourbaki, Nicolas, **88g:46002**
- Hadwin, D. W. (with Nordgren, E. A.; Radjavi, H.; Rosenthal, Peter) Orbit-reflexive operators. **88d:47010**
- Kamal, Aref On proximality and sets of operators. I. Best approximation by finite rank operators. **88g:41033a**
- On proximality and sets of operators. II. Nonexistence of best approximation from the sets of finite rank operators. **88g:41033b**
- On proximality and sets of operators. III. Approximation by finite rank operators on spaces of continuous functions. **88g:41033c**
- Karwowski, Witold See Antoine, J.-P., **88e:47087**
- (Madan, Shobha) See Bourbaki, Nicolas, **88g:46002**
- Nordgren, E. A. See Hadwin, D. W.; et al., **88d:47010**
- Radjavi, H. See Hadwin, D. W.; et al., **88d:47010**
- Rosenthal, Peter See Hadwin, D. W.; et al., **88d:47010**

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- Daughtry, John Operator factorization on partially ordered Hilbert resolution spaces with finite parameter sets. **88h:47066**
- van Eljndhoven, S. J. L. (with Kruszyński, P.) GB^\ast -algebras associated with inductive limits of Hilbert spaces. **88g:47089**
- Feaman, Timothy G. M -ideals and quasitriangular algebras. **88c:47089**
- Hadwin, D. W. (with Nordgren, E. A.) Erratum: "Subalgebras of reflexive algebras" [J. Operator Theory **7** (1982), no. 1, 3–23; MR **83f:47033**]. **88d:47057**
- Hou, Jin Chuan On a conjecture of Deddens, Rosenthal and Sarason. (Chinese) (Not in MR)
- Huang, Dan Run (with Zhang, Dian Zhou) Joint spectrum and unbounded operator algebras. **88g:47090**
- Kissin, E. V. On some reflexive operator algebras constructed from two sets of closed operators and from a set of reflexive operator algebras. **88b:47061**
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- Lia, Long Fu Hyporeductive algebras. (Chinese. English summary) **88h:47067**
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- Prunaru, Bebe Weak density and membership in A_{∞} . **88c:47091**
- Sufficient conditions for membership in the classes A and A_{∞} . **88h:47069**
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- Spivack, Mark Certain properties of derivations. **88b:47062**
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- Alvermann, Klaus The dimension lattice of a JBW-algebra. **88g:46081**
- Apostol, C. (with Fialkow, Lawrence A.) Structural properties of elementary operators. **88c:47071**
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- Arora, S. C. (with Arora, Pramod) On operators satisfying $\operatorname{Re} \sigma_n(T) = \sigma_n(\operatorname{Re} T)$. **88c:47004**
- Azoff, Edward A. On finite rank operators and preannihilators. **88a:47041**
- Barria, José (with Kim, H. W.; Pearcy, Carl) On reflexivity of operators. **88m:47006**
- Bhatia, Rajendra Some inequalities for norm ideals. **88g:47013**

- Blass, Andreas Near coherence of filters. II. Applications to operator ideals, the Stone-Čech remainder of a half-line, order ideals of sequences, and slenderness of groups. **88d:0304b**
- Braunns, Hans-Andreas Multi-ideals and operator ideals. (German and Russian summaries) **88c:47088**
- Cassier, Gilles Un exemple d'opérateur pour lequel les topologies faible et ultrafaible ne coïncident pas sur l'algèbre duale. [Example of an operator for which the weak and ultraweak topologies do not coincide on its dual algebra] **88b:47053**
- Chevreaux, Bernard Recent results on reflexivity of operators and algebras of operators. **88m:47088**
- (with Exner, George; Pearcy, Carl) Sur la réflexivité des contractions de l'espace hilbertien. (English summary) [On the reflexivity of contraction operators in Hilbert space] **88g:47031**
- (with Esterle, J.) Pettis' lemma and topological properties of dual algebras. **88g:47088**
- Daughtry, John Invariance of projections in the diagonal of a nest algebra. **88m:47070**
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- Erdős, J. A. Ideals of causal operators. **88i:93025**
- Esterle, J. See Chevreaux, Bernard, **88g:47088**
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- Herrero, Domingo A. See Fialkow, Lawrence A., **88b:47045**
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- Invariant operator range lattices of nest algebras. (Chinese) **88i:47002**
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- Inequalities for the Schatten p -norm. IV. **88j:47010**
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- Power, Stephen The Cholesky decomposition in Hilbert space. **88m:47035**
- Shu, Wu Chang \ast -commutativity of operators. (Chinese) **88e:47077**
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- Vaserstein, Leonid N. See Herman, Richard H., **88f:46135**
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- Álvarez, Teresa On A -weakly compact operators. **88e:47038**
- Andrews, Kevin T. (with Ward, Joseph D.) Proximality in operator algebras on L_1 . **88d:47058**
- Braunns, A. (with Junek, H.) Bilinear mappings and operator ideals. **88g:47092**
- Cho, Chong-Man (with Johnson, W. B.) M -ideals and ideals in $L(X)$. **88c:47093**
- On M -ideals in $B(\sum_{j=1}^{\infty} \oplus_p l_p^{\infty})$. **88h:47070**
- Dixon, P. G. Left approximate identities in algebras of compact operators on Banach spaces. **88a:47044**
- Ge, Li Ming See Han, De Guang, **88g:47093**
- Han, De Guang (with Ge, Li Ming) A topological result on Banach operator spaces and a distance formula. (Chinese. English summary) **88g:47093**
- Johnson, W. B. See Cho, Chong-Man, **88c:47093**
- Junek, H. See Braunns, A., **88g:47092**
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- Astala, K. (with Tylli, Hans-Olav) On the bounded compact approximation property and measures of noncompactness. **88c:47020**
- (with Ramanujan, M. S.) (s) -nuclear sets and operators. **88g:47042**
- Balikov, G. I. On linear operator equations in normed operator ideals. I. (Russian. English and Bulgarian summaries) **88k:47020**
- Braunns, Hans-Andreas Multi-ideals and operator ideals. (German and Russian summaries) **88c:47088**
- Carl, Bernd (with Stephani, Irmtaud) Generalized entropy numbers and Gelfand numbers—an approach to the entropy behaviour of certain integral operators. **88j:47019**
- Curto, Raúl E. (with Fialkow, Lawrence A.) The spectral picture of (L_1, R_2) . **88c:47006**

- Dubinskii, Yu. A. Algebra of pseudodifferential operators with complex arguments, and its applications. (Russian) **88h:35118**
- Elesović, N. On some classes of nuclear operators defined on tensor products of Banach spaces. (Serbo-Croatian summary) **88k:47029**
- Flakow, Lawrence A. See Curto, Raul E., **88c:47006**
- Khalil, Roshdi p -representable operators in Banach spaces. **88f:47015**
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- Stephani, Irmaud See Carl, Bernd, **88j:47019**
- Tylli, Hans-Olav See Astala, K., **88c:47020**

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- Bercovici, H. Note on property (A_1) . **88c:47006**
- Marsalli, Michael The structure of linear functionals on spaces of operators. **88h:47072**

47D40 Algebras of unbounded operators

- Antoine, J.-P. (with Karwowski, Witold) Addendum/erratum: "Partial \ast -algebras of closed linear operators in Hilbert space" [Publ. Res. Inst. Math. Sci. 21 (1985), no. 1, 205–236; MR 86g:47057]. **88c:47087**
- (with Mathot, F.) Partial \ast -algebras of closed operators and their commutants. I. General structure. (French summary) **88m:47075a**
- (with Mathot, F.; Trapani, C.) Partial \ast -algebras of closed operators and their commutants. II. Commutants and bicommutants. (French summary) **88m:47075b**
- Bhatt, Subhash J. Irreducible representations of a class of unbounded operator algebras. **88h:47063**
- Inoue, Atsushi An unbounded generalization of the Tomita-Takesaki theory. **88c:47094**
- (with Ueda, Hideyuki; Yamauchi, Toshiyuki) Commutants and bicommutants of algebras of unbounded operators. **88k:47064**
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- Kadison, Richard V. Algebras of unbounded functions and operators. **88c:47095**
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- (with Timmermann, W.) The Calkin representation for a certain class of algebras of unbounded operators. **88b:47064**
- Mathot, F. Integral decomposition of partial \ast -algebras of closed operators. **88a:47045**
- See also Antoine, J.-P., **88m:47075a** and **88m:47075b**
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- ★ On Cauchy-Schwarz inequalities for positive maps in algebras of unbounded operators. **88j:47059**
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- Kürsten, Klaus-Detlef Two-sided closed ideals of certain algebras of unbounded operators. **88a:47042**
- Schmüdgen, K. On commuting unbounded selfadjoint operators. IV. **88j:47026**
- Trapani, C. See Epifanio, Giuseppina, **88f:81061**
- Wollenberg, Manfred On the relations between quantum fields and local algebras of observables. **88h:81079**

47D45 Applications to physics

- Segal, I. E. Hilbert-Schmidt cohomology of Weyl systems. **88h:47073**

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- Damaskinski, E. V. Spontaneous breaking of phase and Galilei transforms in Weyl systems. (Russian. English summary) **88a:81070**
- Domenech, A. Sh. Asymptotic completeness for a particle-Fermi-gas system. (Russian. English summary) **88m:81157**
- Khoruzhii, S. S. Some problems in algebraic quantum field theory. (Russian) **88k:81102**
- Lassner, G. A. See Lassner, Gerd; et al., **88f:81048**
- Lassner, Gerd (with Lassner, G. A.; Trapani, C.) Canonical commutation relations on the interval. **88f:81048**
- Trapani, C. See Lassner, Gerd; et al., **88f:81048**

- Verbeure, A. Some applications of semigroups. **88d:82037**

- Wollenberg, Manfred On the relations between quantum fields and local algebras of observables. **88h:81079**

47D99 None of the above, but in this section

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- Bratteli, Ola ★ Derivations, dissipations and group actions on C^\ast -algebras. **88c:46050**
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- Deshpande, M. V. (with Padhye, S. M.) A note on collectively compact sets and Banach algebras. **88g:47039**
- Douglas, Ronald G. Hilbert modules over function algebras. **88i:46064**
- Dvurečenskij, Anatolij Generalization of Maeda's theorem. **88h:81015**
- Gisin, N. The property lattice of spatially separated quantum systems. **88m:81021**
- Goldberg, Moshe Multiplicativity factors and mixed multiplicativity. **88k:47009**
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- Hudson, R. L. (with Lindsay, J. M.) On characterizing quantum stochastic evolutions. **88m:81041**
- Ichinose, Takashi The nonrelativistic limit problem for a relativistic spinless particle in an electromagnetic field. **88j:81017**
- Lindsay, J. M. See Hudson, R. L., **88m:81041**
- Lyubich, Yu. I. ★ Введение в теорию банаховых представлений групп. (Russian) [Introduction to the theory of Banach representations of groups] **88a:22001**
- Padhye, S. M. See Deshpande, M. V., **88g:47039**
- Voiculescu, Dan Dual algebraic structures on operator algebras related to free products. **88c:46080**
- Waelbroeck, L. A preliminary lemma and its application to JLT's hfc. **88m:46063**
- Xia, Dao Xing Trace formula for almost Lie group of operators and cyclic one-cocycles. **88d:22015**
- Yakovlev, V. S. On the representations of some commutative nuclear \ast -algebras. (Russian) **88h:46106**
- On representations of some \ast -algebras of smooth functions. (Russian) **88h:46107**

47E05 Ordinary differential operators [See also 34B25, 58Fxx.]

- Aliev, I. V. The resolvent of a generalized boundary value problem for Sturm-Liouville operator-differential equations. (Russian) **88f:47041**
- Ashurov, S. B. Equivalence and minimality of a part of the root functions of second- and fourth-order differential operator pencils. (Russian) **88g:47096**
- Baranetskiĭ, Ya. E. Spectral properties of a multipoint problem for operator-differential equations. (Russian) **88g:47097**
- Dezin, A. A. Nonstandard problems. (Russian) **88f:47060**
- Egorova, I. E. Spectral properties of the Dirac operator with limit-periodic coefficients. (Russian. English summary) **88c:47099**
- Elliott, George A. Gaps in the spectrum of an almost periodic Schrödinger operator. II. **88f:47042**
- Freiling, Gerhard On the behaviour of eigenfunction expansions in the complex domain. **88f:47043**
- Ilyazova, D. Z. Parametrization of a family of generalized resolvents of an infinite-dimensional analogue of a second-order differentiation operator. (Russian) **88b:47065**
- Khachatryan, I. G. Scattering operators for a pair of higher-order differential operators. (Russian. English and Armenian summaries) **88c:47100**
- Khrabustovskii, V. I. Spectral analysis of periodic systems with degenerate weight (expansions in Bloch solutions). (Russian) **88b:47066**
- Maksudov, F. G. (with Talybov, T. I.) The spectrum of a differential operator with periodic operator-valued coefficients. (Russian. English and Azerbaijani summaries) **88c:47090**
- Mirzoev, K. A. On the nonquasiregularity of some quasidifferential operators. (Russian) **88i:47027**
- Nurzhano, O. D. See Zavalyut, G. D., **88k:47065**
- Pliet, V. T. Completeness of derived chains corresponding to half of the eigenelements of a pencil of ordinary differential operators. (Russian) **88b:47067**
- Rakhimov, M. R. Exact bounds on a closed interval for eigen- and associated functions of a quadratic pencil of second-order ordinary nonselfadjoint differential operators. (Russian) **88d:47060**
- Schultze, Bernd Odd-order differential expressions with positive supporting coefficients. **88j:47061**
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- Trinèche, K. Fonctions moyenne-périodiques associées à un opérateur différentiel singulier sur $(0, \infty)$ et développement en série de Fourier généralisée. [Mean-periodic functions associated with a singular differential operator on $(0, \infty)$ and generalized Fourier series expansion] **88c:47091**
- Zavalyut, G. D. (with Nurzhano, O. D.) A periodic boundary value problem for a class of operator-differential equations. (Russian) **88k:47065**
- Items secondarily classified 47E05
- Allakhverdiev, B. P. Dissipative extensions of a symmetric Schrödinger operator in the case of Weyl's limiting disk. (Russian) **88j:34042**

- Atkinson, F. V. (with Mingarelli, A. B.) Asymptotics of the number of zeros and of the eigenvalues of general weighted Sturm-Liouville problems. **88d:34023**
- Benedek, A. I. (with Panzone, R.) ★ Problemas de contorno. I. (Spanish) [Boundary control problems. I] **88e:34002**
- Binding, Paul (with Browne, Patrick J.; Turyn, Lawrence) Existence conditions for higher order eigensets of multiparameter operators. **88g:47037**
- Blázquez, C. Miguel Transverse homoclinic orbits in periodically perturbed parabolic equations. **88d:34085**
- Borisov, V. V. Singular perturbations of ordinary differential operators with integral boundary conditions. (Russian) **88a:34081**
- Browne, Patrick J. See Binding, Paul; et al., **88g:47037**
- Budaev, V. D. The property of being an unconditional basis of systems of eigen- and associated functions of a second-order operator with discontinuous coefficients. (Russian) **88b:34027**
- The property of being an unconditional basis on a closed interval, for systems of eigen- and associated functions of a second-order operator with discontinuous coefficients. (Russian) **88i:34047**
- Campbell, Stephen L. Operator methods and singular control problems. **88k:93030**
- Chakravarty, N. K. (with Roy Paladhi, Swapna) On the spectral resolution of a differential operator. II. **88d:34025**
- Chierchia, Luigi Absolutely continuous spectra of quasiperiodic Schrödinger operators. **88j:34043**
- Clément, Ph. (with Timmermans, C. A.) On C_0 -semigroups generated by differential operators satisfying Ventcel's boundary conditions. **88c:47075**
- Cordes, H. O. ★ Spectral theory of linear differential operators and comparison algebras. **88g:35144**
- Daho, K. (with Langer, Heinz) Sturm-Liouville operators with an indefinite weight function: the periodic case. (Serbo-Croatian summary) **88i:34048a**
- (with Langer, Heinz) Erratum: "Sturm-Liouville operators with an indefinite weight function: the periodic case". **88i:34048b**
- Danielian, A. A. On the width of the strip of regularity of finite-zone potentials of the Dirac operator. (Russian) **88f:34031**
- Das, Jyoti (with Sen Gupta, Prabir Kumar) On the pointwise convergence of the eigenfunction expansion associated with some iterated boundary value problems. **88a:34023**
- Dijkma, Aalt (with Langer, Heinz; de Snoo, H. S. V.) Symmetric Sturm-Liouville operators with eigenvalue depending boundary conditions. **88m:34022**
- Domshlak, Yu. I. ★ Метод сравнения "по Штурму" в исследовании поведения решений дифференциально-операторных уравнений. (Russian) [A comparison method "in the sense of Sturm" in the investigation of the behavior of solutions of operator-differential equations] **88b:34003**
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- Kobayashi, Yoshikazu. An operator theoretic method for solving $u_t = \Delta \psi(u)$. 88d:35098

- Komura, Yukio (with Konishi, Yoshio) ★ Hisenkei hatten hoteishiki. (Japanese) [Nonlinear evolution equations] 88b:35006
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- Generic properties of nonlinear differential operators. (See 88k:34002)
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- Necessary and sufficient conditions for the continuity of superposition operators. (Italian. English summary) 88a:47059b
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- Ball, Joseph A. (with Foias, C.; Helton, J. W.; Tannenbaum, A.) Nonlinear interpolation theory in H^∞ . 88m:93042
- Banas, József On modulus of noncompact convexity and its properties. 88f:46032
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49-XX Calculus of variations and optimal control; optimization [See also 34H05, 65Kxx, 90Cxx, 93-XX.]

49-01 Elementary exposition; textbooks

- Fox, Charles ★ An introduction to the calculus of variations. 88i:49001
- Kru'ko, P. D. ★ Обратные задачи динамики управляемых систем. (Russian) [Inverse problems of the dynamics of controllable systems] 88i:49001
- Lee, E. Bruce (with Markus, Lawrence) ★ Foundations of optimal control theory. 88b:49001
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- Selersstad, Atle (with Sydseter, Knut) ★ Optimal control theory with economic applications. 88b:49002
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- Malakhovskaya, R. M. ★ Основные вариационные методы в математической физике. (Russian) [Basic variational methods in mathematical physics] 88m:00006
- Miara, B. See Clarlet, Philippe G.; et al., 88j:65061
- Pukhov, G. E. (with Zlatkin, A. A.) ★ Оптимизация и синтез структуры трансверсального фильтра. (Russian) [Optimization and synthesis of the structure of a transversal filter] (Not in MR)
- Sukharev, A. G. (with Timokhov, A. V.; Fedorov, V. V.) ★ Курс методов оптимизации. (Russian) [A course in optimization methods] 88e:90045
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49-02 Advanced exposition (research surveys, monographs, etc.)

- (Bednarczuk, Ewa) See Rolewicz, S., 88k:49001
- Cecconi, J. P. Problems of the calculus of variations in Banach spaces and classes BV. 88e:49002
- Dzhagarkaya, D. T. ★ Необходимые условия оптимальности для задач со смешанными односторонними ограничениями. (Russian) [Necessary conditions for optimality for problems with mixed one-sided constraints] 88e:49002
- Finn, Robert ★ Equilibrium capillary surfaces. 88f:49001
- Hildebrandt, Stefan Variationsrechnung heute. [The calculus of variations today] 88f:49002

- Litvinov, V. G. ★ Оптимизация в эллиптических граничных задачах с приложениями к механике. (Russian) [Optimization in elliptic boundary value problems with applications to mechanics] 88i:49002
- Panagiotopoulos, P. D. ★ Inequality problems in mechanics and applications. 88b:49003
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- Aleksandrov, A. G. ★ Синтез регуляторов многомерных систем. (Russian) [Design of regulators of multidimensional systems] (Not in MR)
- Bobylyev, N. A. (with Boltyanskii, V. G.; Vakhsvyat'skii, S. Yu.; Kalashnikov, V. V.; Kozyakin, V. S.; Kolmanovskii, V. B.; Kravchenko, A. A.; Krasnosel'skii, A. M.; Pokrovskii, A. V.) ★ Математическая теория систем. (Russian) [Mathematical systems theory] 88a:93001
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- Kolmanovskii, V. B. See Bobylev, N. A.; et al., 88a:93001
- Kozyakin, V. S. See Bobylev, N. A.; et al., 88a:93001
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- Kuntsevich, V. M. (with Lychak, M. M.) ★ Синтез оптимальных и адаптивных систем управления. (Russian) [Synthesis of optimal and adaptive control systems] 88d:93002
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- Stadler, Wolfram See Dauer, J. P., 88b:90212
- Stengel, Robert F. ★ Stochastic optimal control. 88b:93002
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49-03 Historical (must also be assigned at least one classification number from Section 01)

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- Cesari, L. A tribute to Leonida Tonelli: Leonida Tonelli (1885-1946) and his 20th century legacy. 88i:01096
- Ekeland, I. The calculus of variations: from minimization problems to critical point theory. 88g:01030
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- (Tonelli, Leonida) See Cesari, L., 88i:01096
- Vekslar, A. I. See Kantorovich, L. V.; et al., 88k:01041
- Vizgin, V. P. Between mechanics and mathematics: analytical mechanics as a factor in the development of mathematics (the nineteenth century). (Russian) 88i:01058
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49-06 Proceedings, conferences, etc.

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Trieste ★ Proceedings of the International Workshop on Integral Functionals in the Calculus of Variations. 88k:49002

Workshop:

Integral Functionals in the Calculus of Variations ★ Proceedings of the International Workshop on Integral Functionals in the Calculus of Variations. 88k:49002

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- Asselmeyer, Bernhard. A Ritz-type optimization method for optimal control problems and its application to hierarchical final-value controllers. (See **88g:93004**)
- Balázs, M. On a method for approximate solving of nonlinear operational equations. **88g:49030**
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- Engl, Heinz W. Discrepancy principles for Tikhonov regularization of ill-posed problems leading to optimal convergence rates. **88b:49045**
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- Jackson, R. H. F. (with McCormick, G. P.) The polyadic structure of factorable function tensors with applications to high-order minimization techniques. **88d:49035**
- Krabs, W. (with Lamp, U.) Numerical solution of time-minimal control problems. **88k:49034**
- Kunisch, Karl (with White, L. W.) Parameter identifiability under approximation. **88e:49061**
- Lamp, U. See Krabs, W., **88k:49034**
- Mackenroth, U. Numerical solution of some parabolic boundary control problems by finite elements. **88k:49035**
- Mäkilä, Pertti M. See Toivonen, Hannu T., **88k:49036**
- McCormick, G. P. See Jackson, R. H. F., **88d:49035**
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- Razzaghi, Mehdi See Razzaghi, Mohsen, **88m:49025**
- Razzaghi, Mohsen (with Razzaghi, Mehdi) Taylor series direct method for variational problems. **88m:49025**
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- Théra, M. See Isac, G., **88g:49031**
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- Alt, Walter A Ritz method for the numerical solution of a class of state constrained control approximation problems. **88g:65062**
- Aniculescu, Gh. Approximation of optimal control problems governed by nonlinear equations. **88a:49003**
- Bainov, D. D. See Hristova, S. G., **88g:34114**
- Balashova, S. D. (with Lesik, L. V.) On Newton's projection realization method for solving minimization problems. (Russian) **88h:90178**
- Basar, Tamer See Li, Shu, **88h:90248**
- Blator, I. A. Convergence in the uniform norm of the Galerkin method for a nonlinear singularly perturbed boundary value problem. (Russian) **88b:65095**
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- Sobolevskii, P. E. A theorem on mixed derivatives and an estimate for the rate of convergence of the Galerkin method for parabolic equations. (Russian. English summary) **88k:34058**
- Solodova, S. V. Iterative regularization of a method for solving optimal control problems. (Russian) **88m:93056**
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- Egorov, Aleksandr Ivanovich (with Mikhailova, T. F.) Solution of the problem of synthesis of an optimal boundary control by the method of singular perturbations. (Russian) **88h:49046**
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- Falcone, M. A numerical approach to the infinite horizon problem of deterministic control theory. **88c:49025**
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- Jongen, Hubertus Th. (with Möbert, T.; Tammer, K.) On iterated minimization in nonconvex optimization. **88h:90215**

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- Crowley, James M. See Banks, H. T.; et al. **88c:93038**
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- Hoppe, R. H. W. Two-sided approximations for unilateral variational inequalities by multigrid methods. **88m:49004**
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49D27 Decomposition methods

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- Bertrand, P. See Drouin, M.; et al. **(88j:93010)**
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- Di Masi, Giovanni B. (with Runggaldier, W.) An approach to discrete-time stochastic control problems under partial observation. **88f:93113**
- Li, Hyong Won (with Sin, Gi Son) Solution method of optimum system design problem on the basis of spectrum expansion in the Hilbert space (application of nonlinear programming to optimum design problem). (Korean. English summary) (Not in MR)
- Runggaldier, W. See Di Masi, Giovanni B., **88f:93113**
- Sin, Gi Son See Li, Hyong Won, (Not in MR)
- Yakubovich, V. A. A linear-quadratic problem of optimization and the frequency theorem for periodic systems. I. (Russian) **88c:49028**

49E25 Effect of perturbations on controllability

- Aisagaliev, S. A. See Dzholdasbekov, U. A., **88g:49047**
- Benaid, Z. Global null controllability of perturbed linear periodic systems. **88c:49030**
- Dzholdasbekov, U. A. (with Aisagaliev, S. A.) On the investigation of the dynamics of the control of robots with respect to an equation of higher approximations. (Russian. Kazakh summary) **88g:49047**
- Panasnyuk, A. I. Equations of the dynamics of sets of reachability in problems of optimization and control under conditions of uncertainty. **88k:49044**

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- Aisagaliev, S. A. See Dzholdasbekov, U. A., **88g:49047**

- Dzholdasbekov, U. A. (with Aisagaliev, S. A.) On the investigation of the dynamics of the control of robots with respect to an equation of first approximation. (Russian. Kazakh summary) **88g:93099**
- Ho, Y.-C. Performance evaluation and perturbation analysis of discrete event dynamic systems. **88c:93004**
- Johnson, Timothy L. See Yam, Yeung; et al., **88c:93006**
- Korobov, V. I. Solution of a design problem for controllable processes with perturbation by means of a controllability function. (Russian) **88h:49061**
- Lang, Jeffrey H. See Yam, Yeung; et al., **88c:93006**
- Yam, Yeung (with Johnson, Timothy L.; Lang, Jeffrey H.) Flexible system model reduction and control system design based upon actuator and sensor influence functions. **88c:93006**

49E30 Relations between controllability and optimal solutions

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- Raitums, U. Transition to convex families of admissible operators in optimal control problems for elliptic equations. (Russian) **88b:49013**
- Sussmann, Hector J. Small-time local controllability and continuity of the optimal time function for linear systems. **88h:49063**

49E99 None of the above, but in this section

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- Kupka, Ivan A. K. Geometric theory of extremals in optimal control problems. I. The fold and Maxwell case. **88c:49005**

49Fxx Manifolds [See also 58Exx.]

49F05 Exterior differential forms, invariant integrals (Cartan theory) [See mainly 58A15.]

- Edelen, Dominic G. B. (with Snyman, I. M.) Cartan forms for multiple integral problems in the calculus of variations. **88c:49031**
- Snyman, I. M. See Edelen, Dominic G. B., **88c:49031**
- Zelikin, M. I. The search for singular extremals. (See **88c:00010**)
- Items secondarily classified 49F05
- Betounes, David Differential geometric aspects of the Cartan form: symmetry theory. **88k:58036**
- Bier, M. See Bountis, Tassos; et al., **88d:34053**
- Bountis, Tassos (with Papageorgiou, V.; Bier, M.) On the singularity analysis of intersecting separatrices in near-integrable dynamical systems. **88d:34053**
- Bryant, Robert (with Griffiths, Phillip) Reduction for constrained variational problems and $\int k^2 ds$. **88a:58044**
- Griffiths, Phillip See Bryant, Robert, **88a:58044**
- Grüter, M. Eine Bemerkung zur Regularität stationärer Punkte von konform invarianten Variationsintegralen. [A remark on the regularity of stationary points of conformally invariant variational integrals] **88b:58034**
- Katayama, Tohru See Takagi, Tomoaki, **88a:49011**
- Krupka, D. On the higher order Hamilton theory in fibered spaces. **88f:58035**
- Muñoz Masqué, Jaime Poincaré-Cartan forms in higher order variational calculus on fibered manifolds. **88d:58029**
- Papageorgiou, V. See Bountis, Tassos; et al., **88d:34053**
- Takagi, Tomoaki (with Katayama, Tohru) An approach to a singular optimal control problem for nonlinear systems using differential form theory. **88a:49011**

49F10 Minimal surfaces [See mainly 53A10, also 58E12.]

- Abdulaev, R. N. On a criterion for the local minimization of the area of a surface. (Russian) **88d:49039**
- Athanasenas, Maria A variational problem for constant mean curvature surfaces with free boundary. **88j:49027**
- Chen, Wei Huan (with Xia, Ren Long; Zhao, Guo Song) A remark on the stable minimal surfaces in \mathbb{R}^3 . (Chinese. English summary) **88h:49066**
- Concus, Paul (with Finn, Robert) Continuous and discontinuous disappearance of capillary surfaces. **88a:49022**
- Finn, Robert See Concus, Paul, **88a:49022**
- Grüter, M. (with Jost, J.) On embedded minimal disks in convex bodies. (French summary) **88f:49029**
Optimal regularity for codimension one minimal surfaces with a free boundary. **88m:49032**
- Hardt, Robert (with Lau, Chi Ping; Lin, Fang Hua) Nonminimality of minimal graphs. **88k:49045**
- Hildebrandt, Stefan Free boundary problems for minimal surfaces and related questions. **88h:49067**
- Jost, J. See Grüter, M., **88f:49029**
- Lancaster, Kirk E. Corrigendum to: "Boundary behavior of a nonparametric minimal surface in \mathbb{R}^n at a nonconvex point" [Analysis 5 (1985), no. 1, 61-69; MR 86m:49053]. **88h:49057**
- Lau, Chi Ping See Hardt, Robert; et al., **88k:49045**
- Levitin, E. S. (with Milyutin, A. A.; Osmolovskii, N. P.) Investigation of a finite-dimensional isoperimetric problem by means of the theory of higher orders of a local minimum. (Russian) **88h:49058**
- Lin, Fang Hua See Hardt, Robert; et al., **88k:49045**
- McIntosh, Robert Perturbing away singularities from area-minimizing hypercones. **88h:49068**

- Millyutin, A. A. See Levitin, E. S.; et al., 88b:49058
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 Morgan, Frank On finiteness of the number of stable minimal hypersurfaces with a fixed boundary. 88b:49059
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 Tsuchiya, Takuya Discrete solution of the Plateau problem and its convergence. 88i:49032
 Xia, Ren Long See Chen, Wei Huan; et al., 88h:49066
 Ye, Ru Gang A priori estimates for minimal surfaces with free boundary, which are not minima of the area. 88e:49030
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- Adams, David (with Simon, Leon) Asymptotic behaviour near isolated singular points for geometric variational problems. 88b:58031
 Akutagawa, Kazuo A note on spacelike hypersurfaces with prescribed mean curvature in a spatially closed globally static Lorentzian manifold. 88b:53074
 Andreeva, E. A. Solution of isoperimetric problems by an analytic method. (Russian) 88m:49016
 Barbosa, J. Lucas (with Colares, A. Gervasio) ★ Minimal surfaces in \mathbb{R}^3 . 88f:53006
 Bidaud-Véron, Marie-Françoise New results concerning the singular solutions of the capillarity equation. 88b:35065
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 Finn, Robert ★ Equilibrium capillary surfaces. 88f:49001
 Capillary surfaces without gravity. (Russian) 88a:53003
 Friedman, Avner See Coker, Anthony D.; et al., 88f:49010
 Gaveau, Bernard (with Mazet, Edmond) Méthode de plus grande descente pour la construction du problème de Plateau. (English summary) [Steepest descent method for solving the Plateau problem] 88j:58023
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 Hildebrandt, Stefan Variationsrechnung heute. [The calculus of variations today] 88e:49002
 Remarks on some isoperimetric problems. 88k:58024
 See also Dierkes, U.; et al., 88k:52003
 Hlaváček, Ivan Shape optimization in two-dimensional elasticity by the dual finite element method. (French summary) 88c:73058
 Hoffman, David A. The construction of families of embedded minimal surfaces. 88c:53012
 Howard, Ralph On the Gehring link problem and the isoperimetric inequality of Bombieri and Simon. 88g:53063
 Hsiang, Wu-yi On the construction of infinitely many congruence classes of imbedded closed minimal hypersurfaces in $S^n(1)$ for all $n \geq 3$. 88k:53081
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 Siegel, David The behavior of a capillary surface for small bond number. 88f:53010
 Simon, Leon See Adams, David, 88b:58031
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 Vasilenko, V. A. The finite element approximation of minimal surfaces. 88b:65023
 Vogel, Thomas I. Stability of a drop trapped between two parallel planes: preliminary report. 88a:76026
 Wente, Henry C. Immersed tori of constant mean curvature in \mathbb{R}^3 . 88b:53073
 White, Brian Cabell Curvature estimates and compactness theorems in 3-manifolds for surfaces that are stationary for parametric elliptic functionals. 88g:58037
 Williams, Graham H. Global regularity for solutions of the minimal surface equation with continuous boundary values. (French summary) 88a:35103
 The best modulus of continuity for solutions of the minimal surface equation. 88i:35060
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49F15 Morse theory in Hilbert and other spaces [See also 57R27, 58Exx.]

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- Bloch, Anthony M. (with Byrnes, Christopher I.) An infinite-dimensional variational problem arising in estimation theory. 88a:58035
 Byrnes, Christopher I. See Bloch, Anthony M., 88a:58035
 Coti Zelati, Vittorio Periodic solutions of second order Hamiltonian systems and Morse theory. 88m:58052
 Girardi, Mario (with Matzeu, Michele) Solutions of minimal period for Hamiltonian systems with quadratic growth at the origin and superquadratic at infinity. (Italian summary) 88b:58044
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 Mrozek, Marian Strongly isolated invariant sets and strongly isolating blocks. (Russian summary) 88k:58139
 Pucci, Patrizia (with Serrin, James) The structure of the critical set in the mountain pass theorem. 88b:58025
 Rasmias, Themistocles M. On the Morse-Smale index theorem and the problem of minimal surfaces. 88j:53062
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 White, Brian Cabell The space of m -dimensional surfaces that are stationary for a parametric elliptic functional. 88k:58027

49F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 28A75, 32C30, 58A25, 58C35.]

- Almgren, Frederick J., Jr. Optimal isoperimetric inequalities. 88c:49032
 Arnold, Edward M. An L^1 version of the Gauss integral theorem. 88j:49028
 Fuglede, Bent Stability in the isoperimetric problem. 88b:49060
 Grüter, M. Regularity results for minimizing currents with a free boundary. 88d:49040
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 Kime, Katherine A. (with Russell, David L.) Boundary controllability of Maxwell's equations in a spherical region. 88k:49047
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 Lin, Fang Hua See Hardt, Robert, 88m:49033
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- Carriero, Michele (with Leaci, Antonio; Pascali, Eduardo) Semicontinuity and relaxation for functionals that are the sum of integrals of area type and of integrals with respect to a Radon measure. (Italian. English summary) 88h:49073
 Đào Trọng Thi Globally minimal currents and surfaces in Riemannian manifolds. 88a:53069
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 Simon, Leon A strict maximum principle for area minimizing hypersurfaces. 88h:49069
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 (with Zähle, Ulrich) Jenaer Beiträge zur geometrischen Maßtheorie. (English and Russian summaries) [Jena's contribution to geometric measure theory] 88k:01061
 Zähle, Ulrich See Zähle, M., 88k:01061

49F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting

- Concus, Paul (with Miranda, Mario) MACSYMA and minimal surfaces. 88b:49061
 Kozlov, S. E. Structure of the unit sphere of a bivector space. (Russian) (See 88g:00009)
 Miranda, Mario See Concus, Paul, 88b:49061
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- Grüter, M. Regularity results for minimizing currents with a free boundary. 88d:49040
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- Hardt, Robert (with Lin, Fang Hua) Mappings minimizing the L^p norm of the gradient. 88k:58026
- Lin, Fang Hua See Hardt, Robert, 88k:58026
- Miranda, Mario Some remarks about a free boundary type problem. 88k:49046
- Tomter, Per The spherical Bernstein problem in even dimensions and related problems. 88k:53083
- Zhang, Xue Ming Nonclassical variation field theory. 88i:58030

49F25 Surface area; Weierstrass and Burkill integrals, subadditive set functions

- Amante, Paolo Steiner's generalized inequality for the length functional on measurable mappings. (Italian) 88h:49071
- A theorem of convergence in area. (Italian) 88h:49072
- Bardaro, Carlo (with Garzi, Carlo) Some remarks on μ -variation in Banach spaces. (Italian. English summary) 88f:49031
- Brandi, P. (with Salvadori, A.) Existence, semicontinuity and representation for the integrals of the calculus of variations. The BV case. 88b:49062
- Carriero, Michele (with Leaci, Antonio; Pascali, Eduardo) Integrals with respect to a Radon measure added to area type functionals: semicontinuity and relaxation. (Italian summary) 88k:49048
- (with Leaci, Antonio; Pascali, Eduardo) Semicontinuity and relaxation for functionals that are the sum of integrals of area type and of integrals with respect to a Radon measure. (Italian. English summary) 88h:49073
- Flacca, Antonella (with Lodovici, Carla) The behavior of various concepts of quasiadditivity with respect to a nonlinear operator. (Italian. English summary) 88m:49034
- Garzi, Carlo See Bardaro, Carlo, 88f:49031
- Leaci, Antonio See Carriero, Michele; et al., 88b:49073 and 88k:49048
- Lodovici, Carla See Flacca, Antonella, 88m:49034
- Martellotti, Anna The Fubini-Tonelli integral in the Weierstrass-Burkill sense along pairs of continuous curves. (Italian. English summary) 88k:49049
- Mascolo, Elvira (with Schianchi, Rosanna) Existence theorems in the calculus of variations. 88g:49049
- Pascali, Eduardo See Carriero, Michele; et al., 88b:49073 and 88k:49048
- Salvadori, A. See Brandi, P., 88b:49062
- Schianchi, Rosanna See Mascolo, Elvira, 88g:49049
- Vinti, C. The integrals of the calculus of variations as Weierstrass-Burkill-Cesari integrals. (See 88a:49001)

Items secondarily classified 49F25

- (Cesari, L.) See Contributions to modern calculus of variations, 88a:49001
- Morgan, Frank Calibrations modulo ν . 88g:49048
- (Tonelli, Leonida) See Contributions to modern calculus of variations, 88a:49001

Unauthored items

Anniversary:

- Birth of Tonelli, Leonida ★ Contributions to modern calculus of variations. 88a:49001

- Bologna ★ Contributions to modern calculus of variations. 88a:49001

- Contributions to modern calculus of variations ★ Contributions to modern calculus of variations. 88a:49001

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- Centenary of the birth of Leonida Tonelli ★ Contributions to modern calculus of variations. 88a:49001

49F99 None of the above, but in this section

- Klötzler, R. Zur analytischen Lösung alter und neuer geometrischer Optimierungsprobleme. [On the analytical solution of old and new geometrical optimization problems] (See 88e:34004b)

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- Loss, Michael The Skyrme model on Riemannian manifolds. 88m:81093

49Gxx Variational methods for eigenvalues [See also 47A70.]

49G05 Variational approach to eigenvalues

- Gollan, Bernhard Eigenvalue perturbations and nonlinear parametric optimization. 88e:49069
- Kudryavtsev, L. D. Eigenfunctions and eigenvalues of variational problems in weighted spaces. (Russian. English and Georgian summaries) 88a:49024
- Kuttler, J. R. (with Sigillito, V. G.) ★ Estimating eigenvalues with a posteriori/a priori inequalities. 88a:49025
- Payne, L. E. (with Philippin, Gérard) Isoperimetric inequalities for polarization and virtual mass. 88e:49070
- Philippin, Gérard See Payne, L. E., 88e:49070
- Sigillito, V. G. See Kuttler, J. R., 88a:49025

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- Aubin, Thierry Variational problems related to the Monge-Ampère equation. 88m:35055
- Mysliński, Andrzej Finite element approximation of an optimal design problem for free vibrating plates. 88e:65143
- Neumann, Jan An abstract differential inequality and eigenvalues of variational inequalities. 88m:47096

49G10 Rayleigh-Ritz methods

- Klimov, V. S. Two-sided estimates for the values of convex variational problems. (Russian) 88j:49029
- Knyazev, A. V. Sharp a priori error estimates of inequality type in the Rayleigh-Ritz method for symmetric spectral problems without assumptions on sign-definiteness or compactness. (Russian) (See 88k:00015)

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- Chen, Qing Yi See Liu, Xun Ming, 88g:73041
- Fichera, Gaetano H. Weyl's theorem on the asymptotic distribution of eigenvalues in elasticity. (Italian) 88e:35139
- Knyazev, A. V. The Kato-Temple block algorithm for the estimation of eigenvalues: justification and application. (Russian) 88i:47004
- Limaye, B. V. (with Nair, M. T.) Rayleigh-Schrödinger procedure for iterative refinement of computed eigenvalues under strong approximation. 88m:47037
- Liu, Xun Ming (with Chen, Qing Yi) An alternative method of solution to problems concerning viscoelastic rods. (Chinese. English summary) 88g:73041
- Nair, M. T. See Limaye, B. V., 88m:47037

49G15 Weinstein and Aronszajn methods, intermediate problems

- Beattie, C. (with Greenlee, W. M.) Corrigendum: "Convergence theorems for intermediate problems" [Proc. Roy. Soc. Edinburgh Sect. A 100 (1985), no. 1, 107-122; MR 86i:49045]. 88h:49063
- (with Greenlee, W. M.) Convergence rates for intermediate problems. 88h:49074
- An extension of Aronszajn's rule: slicing the spectrum for intermediate problems. 88h:49075
- Greenlee, W. M. See Beattie, C., 88h:49063 and 88h:49074

Items secondarily classified 49G15

- Minton, Roland B. See Reneke, James A., (88j:93009)
- Reneke, James A. (with Minton, Roland B.) RKH space methods for approximating the covariance kernels of a class of stochastic linear hereditary systems. II. (See 88j:93009)

49G20 Linear operators in Hilbert spaces

- Filippov, V. M. A posteriori estimates and dual variational principles for nonselfadjoint equations. (Russian) 88k:49050

Items secondarily classified 49G20

- Ageev, A. L. The method of quasisolutions for the problem of determining the eigenfunctions of a linear operator. (Russian) 88j:65118
- Binding, Paul (with Volkmer, H.) Existence and uniqueness of indexed multiparametric eigenvalues. 88a:47021
- Cole, Robert J. See Mika, Janusz Roman; et al., 88b:47021
- Mika, Janusz Roman (with Pack, D. C.; Cole, Robert J.) Optimal bounds for bilinear forms associated with linear equations. 88b:47021
- Pack, D. C. See Mika, Janusz Roman; et al., 88b:47021
- Volkmer, H. See Binding, Paul, 88a:47021

49H05 Variational principles of physics [See also 70-XX, 81-XX.]

- Bampi, F. (with Morro, A.) Topics in the inverse problem of the calculus of variations. (Italian summary) 88c:49034
- Koval', F. F. See Rvachev, V. L., 88k:49051
- Morro, A. See Bampi, F., 88c:49034
- Panchenkov, A. N. Ill-posed extremal problems of the theory of optimal hydrodynamic forms. (Russian) 88d:49041
- Rvachev, V. L. (with Koval', F. F.) R-functions in variational methods. (Russian) 88k:49051
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- Assamoi, L. See Tabarrok, B., 88b:73012
- Bedford, A. ★ Hamilton's principle in continuum mechanics. 88k:73005
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- Fonte, G. On the theory of variational principles in quantum mechanics. (Italian summary) 88d:81031
- Hardt, Robert (with Kinderlehrer, David; Lin, Fang Hua) Existence and partial regularity of static liquid crystal configurations. 88a:35207
- (with Kinderlehrer, David) Mathematical questions of liquid crystal theory. 88m:82033
- Herrera, Ismael Unified formulation of numerical methods. I. Green's formulas for operators in discontinuous fields. 88b:65112a

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- Ichijyanagi, Masakazu A variation principle in the quantum theory of irreversible processes formulated in a superspace. 88f:82015
- Khachatryan, A. G. Statistical mechanics approach in minimizing a multivariable function. 88i:82083
- Kinderlehrer, David See Hardt, Robert; et al., 88a:35207 and 88m:32033
- Klyuchkovskii, Yu. B. (with Navrotsky, P. P.) Conditions for the existence of a unique Lagrange function for a partially Lagrange system of ordinary differential equations. (Russian) 88c:70017
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- Lia, Fang Hua See Hardt, Robert; et al., 88a:35207
- Lialio, A. A. Upper and lower solution estimates in unilateral viscoelastodynamics. 88g:73048
- Long, Ya Qiu Generalized variational principles with several arbitrary parameters and the variable substitution and multiplier method. 88i:73017
- Mikelić, A. A variational problem of the Thomas-Fermi-von Weizsäcker type. (Serbo-Croatian summary) 88f:81065
- Morro, A. See Caviglia, G., 88c:76006
- Navrotsky, P. P. See Klyuchkovskii, Yu. B., 88c:70017
- Obukhov, Yu. N. The Palatini principle for manifold with boundary. 88h:83014
- Qian, Wei Chang Incompatible elements and generalized variational principles. 88d:73038
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- Sivaloganathan, J. Uniqueness of regular and singular equilibria for spherically symmetric problems of nonlinear elasticity. 88a:73035
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- Tabarek, B. (with Assamoi, L.) A new variational principle in elastodynamics. 88b:73012
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51-XX Geometry {For algebraic geometry, see 14-XX.}

51-00 Handbooks, dictionaries, and other reference works

Items secondarily classified 51-00

- Barth, Wolf Paul (with Böhm, Johannes; do Carmo, Manfredo; Fischer, Gerd; Knörrer, Horst; Leiterer, Jürgen; Pinkall, U.; Quaißer, Erhard; Reckziegel, Helmut) ★ Mathematical models. 88c:00001
- Böhm, Johannes See Barth, Wolf Paul; et al., 88c:00001
- do Carmo, Manfredo See Barth, Wolf Paul; et al., 88c:00001
- Fischer, Gerd See Barth, Wolf Paul; et al., 88c:00001
- Knörrer, Horst See Barth, Wolf Paul; et al., 88c:00001
- Leiterer, Jürgen See Barth, Wolf Paul; et al., 88c:00001
- Pinkall, U. See Barth, Wolf Paul; et al., 88c:00001
- Quaißer, Erhard See Barth, Wolf Paul; et al., 88c:00001
- Reckziegel, Helmut See Barth, Wolf Paul; et al., 88c:00001

51-01 Elementary exposition; textbooks

- Berger, Marcel ★ Geometry. I. 88a:51001a
★ Geometry. II. 88a:51001b
- Chee, P. S. Circles. (Malay) 88f:51001
- (Cole, Michael) See Berger, Marcel, 88a:51001a and 88a:51001b
- Fischer, Gerd ★ Analytische Geometrie. (German) [Analytic geometry] 88m:51001
- Gherardelli, Francesco (with Rosati, Luigi Antonio; Tomassini, Giuseppe) ★ Lezioni di geometria. Vol. primo. (Italian) [Geometry lessons. Vol. I] 88k:51001
- Goldblatt, Robert ★ Orthogonality and spacetime geometry. 88k:51002
- Henne, Heinrich Unterhaltsame Kugelgeometrie. [Entertaining spherical geometry] 88i:51001
- (Levy, Silvio) See Berger, Marcel, 88a:51001a and 88a:51001b
- Menghini, Marta Endliche Geometrien: didaktische Aspekte. [Finite geometries: didactic aspects] 88g:51001
- Rosati, Luigi Antonio See Gherardelli, Francesco; et al., 88k:51001
- Tomassini, Giuseppe See Gherardelli, Francesco; et al., 88k:51001

Items secondarily classified 51-01

- Postnikov, M. M. ★ Аналитическая геометрия. (Russian) [Analytic geometry] 88h:00001
★ Линейная алгебра. (Russian) [Linear algebra] 88i:15002
- Sachs, Hans ★ Ebene isotrope Geometrie. (German) [Plane isotropic geometry] 88j:51036

51-02 Advanced exposition (research surveys, monographs, etc.)

Items secondarily classified 51-02

- Bartoli, A. Finite geometries and designs. 88g:51015

51-03 Historical (must also be assigned at least one classification number from Section 01)

- (Coxeter, H. S. M.) See Trudeau, Richard J., 88d:51002
- Höhl, Tom Modern Hjelmslev geometry. (Danish. English summary) 88d:51001
- Trudeau, Richard J. ★ The non-Euclidean revolution. 88d:51002

Items secondarily classified 51-03

- Baptist, Peter Winkeldreiteilung und Trisektierer. [Trisection of angles and trisectors] (Not in MR)
- Barth, Wolf Paul (with Böhm, Johannes; do Carmo, Manfredo; Fischer, Gerd; Knörrer, Horst; Leiterer, Jürgen; Pinkall, U.; Quaißer, Erhard; Reckziegel, Helmut) ★ Mathematical models. 88c:00001
- (Blackwell, Richard J.) See Huygens, Christiaan, 88g:01070
- Böhm, Johannes See Barth, Wolf Paul; et al., 88c:00001
- (Bos, H. J. M.) See Huygens, Christiaan, 88g:01070
- de Campou, P. ★ Des invariants en géométrie analytique. (French) [On invariants in analytic geometry] 88c:01091
- do Carmo, Manfredo See Barth, Wolf Paul; et al., 88c:00001
- Cerchez, Mihai ★ Pitagora. (Romanian) [Pythagoras] 88a:01006
- (Desargues, Girard) See Field, J. V., 88h:01016
- Descartes, René ★ Геометрия. (Bulgarian) [Geometry] 88a:01066
- Edmondson, Amy C. ★ A Fuller explanation. 88d:01027
- (Engel, Friedrich) See Saccheri, Girolamo, 88j:01013
- Field, J. V. (with Gray, J. J.) ★ The geometrical work of Girard Desargues. 88h:01016
- Fischer, Gerd See Barth, Wolf Paul; et al., 88c:00001
- Fukagawa, Hidetosi Algebraic curves in Japan during the Edo period. (French and German summaries) 88m:01009
- (Fuller, R. Buckminster) See Edmondson, Amy C., 88d:01027
- Gray, J. J. See Field, J. V., 88h:01016
- (Halsted, George Bruce) See Saccheri, Girolamo, 88j:01013
- Hara, Kokiti Quelques observations sur la correspondance Sluse-Pascal. [Some remarks on the Sluse-Pascal correspondence] 88f:0108b
- (Hilbert, David) See Toeplitz, Michael-Markus, 88a:01023 and 88d:01026
- (Hjelmslev, Johannes) See Pedersen, Flemming Damhus, 88c:01030
- Huygens, Christiaan ★ The pendulum clock or geometrical demonstrations concerning the motion of pendula as applied to clocks. 88g:01070
- Klrvánek, Igor Archimedes was right. I. 88e:51035
- Knörrer, Horst See Barth, Wolf Paul; et al., 88c:00001
- Laguette, E. ★ Recherches sur la géométrie de direction. (French) [Research on the geometry of direction] 88d:01045
- Leiterer, Jürgen See Barth, Wolf Paul; et al., 88c:00001
- Mesnard, Jean Sluse et Pascal. [Sluse and Pascal] 88f:01008a
- Mitrinović, D. S. (with Pečarić, Josip E.; Volenec, V.) History, variations and generalizations of the Möbius-Neuberg theorem and the Möbius-Pompeiu theorem. 88g:51033
- (Onicescu, Octav) See Cerchez, Mihai, 88a:01006
- (Pascal, Blaise) See Mesnard, Jean, 88f:01008a and Hara, Kokiti, 88f:0108b
- Pečarić, Josip E. See Mitrinović, D. S.; et al., 88g:51033
- Pedersen, Flemming Damhus J. Hjelmslev's projective infinitesimal geometry. (Danish. English summary) 88c:01030
- Pinkall, U. See Barth, Wolf Paul; et al., 88c:00001
- Pont, Jean-Claude ★ L'aventure des parallèles. (French) [The adventure of parallels] 88b:01001
- Quaißer, Erhard See Barth, Wolf Paul; et al., 88c:00001
- Reckziegel, Helmut See Barth, Wolf Paul; et al., 88c:00001
- Richards, Joan L. Projective geometry and mathematical progress in mid-Victorian Britain. 88i:01053
- Saccheri, Girolamo ★ Euclides vindicatus. 88j:01013
- Semenov, G. I. Some problems in the development of the axiomatic method in geometric investigations in the nineteenth century. (Ukrainian. Russian summary) 88j:01016
- (Skopets, Z. A.) See Yaglom, I. M., 88g:51036
- (de Sluse, René-François) See Mesnard, Jean, 88f:01008a and Hara, Kokiti, 88f:0108b
- (Sotirov, Vladimir) See Descartes, René, 88a:01066
- (Stackel, Paul) See Saccheri, Girolamo, 88j:01013
- (Steinhardt, F.) See Saccheri, Girolamo, 88j:01013
- Szczerba, L. W. Tarski and geometry. 88c:01032
- (Tarski, Alfred) See Szczerba, L. W., 88c:01032
- Toeplitz, Michael-Markus ★ Über die Entstehung von David Hilberts "Grundlagen der Geometrie". (German) [On the evolution of David Hilbert's Foundations of geometry] 88d:01026
- On the origins of David Hilbert's Grundlagen der Geometrie. 88a:01023
- Volenec, V. See Mitrinović, D. S.; et al., 88g:51033
- Yaglom, I. M. On a theorem of Ptolemy, a theorem of Casey and a paper by Z. A. Skopets. (Russian) 88g:51036
- (Yushkevich, A. P.) See Descartes, René, 88a:01066

Unauthored items

Correspondence:

- de Sluse, René-François-Pascal, Blaise See Hara, Kokiti, 88f:0108b

51-04 Explicit machine computation and programs (not the theory of computation or programming)

- Starodetko, E. A. ★ Элементы вычислительной геометрии. (Russian) [Elements of computational geometry] 88k:51003

Items secondarily classified 51-04

- Chakrabarti, P. P. See Das, P. P.; et al., 88e:68106
- Chatterji, B. N. See Das, P. P.; et al., 88e:68106

- Coelho, Helder (with Pereira, Luis Moniz) Automated reasoning in geometry theorem proving with Prolog. (Not in MR)
 (Crapo, Henry) See Computer-aided geometric reasoning, 88b:51001
 Das, P. P. (with Chakrabarti, P. P.; Chatterji, B. N.) Generalized distances in digital geometry. 88c:68106
 Hu, Sen See Wang, Dong Ming, 88c:03012
 Meshkat, Siavash N. (with Sakkas, Constantine M.) Voronoi diagram for multiply-connected polygonal domains. II. Implementation and application. (Not in MR)
 Nackman, Lee R. See Srinivasan, Vijay, (Not in MR)
 Oommen, B. John An efficient geometric solution to the minimum spanning circle problem. 88j:90089
 Pereira, Luis Moniz See Coelho, Helder, (Not in MR)
 Sakkas, Constantine M. See Meshkat, Siavash N., (Not in MR)
 Srinivasan, Vijay (with Nackman, Lee R.) Voronoi diagram for multiply-connected polygonal domains. I. Algorithm. (Not in MR)
 Wang, Dong Ming (with Hu, Sen) Constructive geometric theorems and a mechanical proof system for them. (Chinese. English summary) 88c:03012
 Wu, Wen Jun A mechanization method of geometry. I. Elementary geometry. (Chinese summary) 88b:03023
 A mechanization method of geometry and its applications. I. Distances, areas and volumes. (Chinese summary) 88c:03014
 Examples of the application of the SOLVER software system. (Chinese) 88c:03015

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- Computer-aided geometric reasoning ★ Computer-aided geometric reasoning. Vol. I, II. 88b:51001
 Sophia-Antipolis ★ Computer-aided geometric reasoning. Vol. I, II. 88b:51001
 Workshop:
 Computer-aided geometric reasoning ★ Computer-aided geometric reasoning. Vol. I, II. 88b:51001

51-06 Proceedings, conferences, etc.

- (Bariotti, A.) See Combinatorics '86, 88j:51001
 (Crapo, Henry) See Computer-aided geometric reasoning, 88b:51001
 (Enghis, P.) See Seminar: Geometry, 88i:51002
 (Marchi, Mario) See Combinatorics '86, 88j:51001
 (Tallini, Giuseppe) See Combinatorics '86, 88j:51001
 (Tarina, M.) See Seminar: Geometry, 88i:51002

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- Chj-Napoca ★ Seminar on geometry, 88i:51002
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 Conference:
 Incidence geometries and combinatorial structures ★ Combinatorics '86, 88j:51001
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 Geometry ★ Seminar on geometry, 88i:51002
 Sophia-Antipolis ★ Computer-aided geometric reasoning. Vol. I, II. 88b:51001
 Trento ★ Combinatorics '86, 88j:51001
 Workshop:
 Computer-aided geometric reasoning ★ Computer-aided geometric reasoning. Vol. I, II. 88b:51001

Items secondarily classified 51-06

- (Aschbacher, Michael) See Geometries and groups, 88j:20002 and 88k:20004
 (Cohen, Arjeh M.) See Geometries and groups, 88j:20002 and 88k:20004
 (Kantor, William M.) See Geometries and groups, 88j:20002 and 88k:20004

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- Designs and finite geometries ★ Designs and finite geometries, 88f:05001
 Geometries and groups ★ Geometries and groups, 88j:20002
 ★ Geometries and groups, 88k:20004
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 Symposium:
 Designs and finite geometries ★ Designs and finite geometries, 88f:05001
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 Geometries and groups, finite and algebraic ★ Geometries and groups, 88j:20002
 ★ Geometries and groups, 88k:20004

51Axx Linear incidence geometry

51A05 General theory and projective geometries

- Bariotti, A. Some geometric questions from the point of view of von Staudt. (Italian) 88a:51002
 Batten, Lynn Margaret Locally generalized projective spaces. 88f:51002
 Beutelspacher, Albrecht (with Schestag, Inge) On a -semiaffine planes with invisible lines. 88j:51002
 Molchanov, V. A. How projective planes are determined by their semigroups. (Russian) 88m:51002
 Schestag, Inge See Beutelspacher, Albrecht, 88j:51002
 Szulc, Andrzej Projection in an affine space described in terms of lattices. 88g:51002
 Succi Cruciani, Rosanna Axioms for a coherent Euclidean geometry. (Italian. English summary) 88h:51002
 Wallgörs, Bogusława On some system of axioms of central similarity geometry. 88a:51003

Items secondarily classified 51A05

- Biscarini, Paola Hermitian n -curves in countable planes. (Italian. English summary) 88j:51037
 Maurer, Helmut Die affine Projektivitätengruppe der Halbebenen. [The affine group of projectivities of the Hall planes] 88g:51004
 Schenke, Michael Analoga des Fundamentalsatzes der projektiven Geometrie in der Gruppentheorie. I. [Analogues of the fundamental theorem of projective geometry in group theory. I] 88g:20055

51A10 Homomorphism, automorphism and dualities

- Denisova, T. E. (with Zotov, A. K.) On the connection between homomorphisms of projective planes and homotopies of planar ternary Hall rings. (Russian) 88j:51003
 Vdovin, V. V. Homomorphisms of projective planes. II. (Russian) 88b:51001
 Zotov, A. K. See Denisova, T. E., 88j:51003

Items secondarily classified 51A10

- Buckenhout, F. (with Delandtsheer, A.; Doyen, Jean) Finite linear spaces with flag-transitive and locally primitive groups. 88b:20008
 Delandtsheer, A. See Buckenhout, F.; et al., 88b:20008
 Doyen, Jean See Buckenhout, F.; et al., 88b:20008
 Grundhöfer, Theo (with Strambach, Karl) Die affinen Projektivitätengruppen der lokal kompakten zusammenhängenden Translationsebenen. [The affine projectivity groups of the locally compact connected translation planes] 88b:51020
 Kalhoff, Franz Zur Archimedisierung projektiver Ebenen. (English summary) [On the Archimedization of projective planes] 88b:51013
 Molchanov, V. A. How projective planes are determined by their semigroups. (Russian) 88m:51002
 Priess-Crampe, Sibylla o -Epmorphismen angeordneter projektiver Ebenen. [o -epimorphisms of ordered projective planes] 88c:51026
 Strambach, Karl See Grundhöfer, Theo, 88b:51020

51A15 Structures with parallelism

- Herzer, Armin On finite translation structures with proper dilatations. 88b:51002
 Lettrich, Jaroslav Anti-nets. I. Basic notation and properties—closure conditions. (Russian and Czech summaries) 88g:51003a
 Anti-nets. II. Collineations of anti-nets. (Russian and Czech summaries) 88g:51003b
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Items secondarily classified 51A15

- Banning, Jan Proportionalities: a basis for affine geometry. (Dutch. German summary) 88a:51004
 Kusak, Eugeniusz Desarguesian Euclidean planes and their axiom system. (Russian summary) 88c:51003

51A20 Configuration theorems

- Bonetti, Flavio (with Civolani, Nino) A note on free extension processes based on the configuration of Veblen. 88b:51003
 Civolani, Nino See Bonetti, Flavio, 88b:51003
 Dębowski, Kazimierz Desargues' theorem in Klein's space. 88b:51004
 Forrest, Williams Kramer The fundamental configurations of linear projective geometry. 88m:51004
 Fuglister, Frederick J. On generalized Moore geometries. I, II. 88b:51004
 Funk, M. On configurations in translation planes of positive characteristic. 88i:51003
 Mendelsohn, E. (with Mendelsohn, N. S.; Padmanabhan, R.; Wolk, Barry) Decomposition of prime clusters on a complex cubic. 88k:51005
 Mendelsohn, N. S. See Mendelsohn, E.; et al., 88k:51005
 Padmanabhan, R. See Mendelsohn, E.; et al., 88k:51005
 Saam, Armin Ein neuer Schließungssatz für projektive Ebenen. (English summary) [A new closure theorem for projective planes] 88f:51003
 Struve, Horst (with Struve, Rolf) The Desargues configuration and inversive geometry. 88b:51005
 Struve, Rolf See Struve, Horst, 88b:51005
 Wolk, Barry See Mendelsohn, E.; et al., 88k:51005

Items secondarily classified 51A20

- Abdul-Elah, M. S. (with Al-Dhahir, M. W.; Jungnickel, Dieter) g_3 in $PG(2, q)$. 88j:51014
 Al-Dhahir, M. W. See Abdul-Elah, M. S.; et al., 88j:51014
 Alexanderson, G. L. (with Wetzel, John E.) A simplicial 3-arrangement of 21 planes. 88b:52020a
 (with Wetzel, John E.) On d -arrangements associated with a simplex. 88b:52020b
 (with Wetzel, John E.) A simplicial 3-arrangement of 22 planes. 88b:52020c
 Beutelspacher, Albrecht (with Metsch, Klaus) Embedding finite linear spaces in projective planes. II. 88k:51007
 van de Craats, J. (with Simonis, J.) Affinely regular polygons. 88d:51003
 Grünig, Klaus Kegelschnitte und steinerische Ovale in Fano-Ebenen. [Conics and Steiner ovals in Fano planes] 88k:51006
 Hsu, Chen Jung On a theorem of Steiner, the line of images, and Ky Fan's identity for symmetric bilinear forms. 88b:51016
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 Simonis, J. See van de Craats, J., 88d:51003
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 Wetzel, John E. See Alexanderson, G. L., 88b:52020a; 88b:52020b and 88b:52020c
 Zucco, Andreana Simple points of continuous families of curves. (Italian. German summary) 88d:52012

51A25 Algebraization [See also 12Kxx, 20N10.]

- Hayden, John L. A representation theory for Cartesian groups. **88e:51001**
 Jantosciak, James Classical geometries as hypergroups. (See **88g:20004**)
 Libicher, Jaroslav Stein algebras and incidence structures with similarity relation. (Czech summary) **88h:51003**
 Items secondarily classified 51A25
 Brehm, Ulrich Coordinatization of lattices. **88f:06010**
 Kuznetsov, E. A. On a class of ternary systems. (Russian) **88h:20102**
 Lyakh, I. V. On pseudo-automorphisms of orthogonal systems of loops. (Russian) **88k:20097**
 Van Maldeghem, H. On locally finite alternative division rings with valuation. **88j:17001**

51A30 Desarguesian and Pappian geometries

- Banning, Jan Proportionality: a basis for affine geometry. (Dutch. German summary) **88a:51004**
 Borges, Rudolf Eine mit dem Satz von Pappos äquivalente Version des Scherensatzes. [A version of the scissors theorem equivalent to Pappos' theorem] **88j:51004**
 van de Craats, J. (with Simonis, J.) Affinely regular polygons. **88d:51003**
 Falna, Giorgio Some results on the collineation group of ultrapowers of infinite projective planes. **88a:51005**
 Grünig, Klaus Kegelschnitte und steinersche Ovale in Fano-Ebenen. [Conics and Steiner ovals in Fano planes] **88k:51006**
 Kusak, Eugeniusz (with Prażmowski, Krzysztof) On affine reducts of Desargues axiom. (Russian summary) **88e:51002**
 Desarguesian Euclidean planes and their axiom system. (Russian summary) **88e:51003**
 Prażmowski, Krzysztof See Kusak, Eugeniusz, **88e:51002**
 Simonis, J. See van de Craats, J., **88d:51003**

Items secondarily classified 51A30

- Barlotti, A. Some geometric questions from the point of view of von Staudt. (Italian) **88a:51002**
 Debeveris, René Les structures exceptionnelles en algèbre et en géométrie. [Exceptional structures in algebra and geometry] **88k:51031**
 Forrest, Williams Kramer The fundamental configurations of linear projective geometry. **88m:51004**
 Grochowska, Malgorzata Ordered affine geometry based on the notion of positive dilatation groups. **88a:51020**
 Kloth, Siegfried (with Pahlisch, Elke) Ein gruppentheoretischer Aufbau der räumlichen äquaffinen Geometrie unter Verwendung von Scherungen. [A group-theoretic construction of spatial equiaffine geometry under the use of shears] **88g:51019**
 Machala, František Zur Existenz eines Ordnungsverhältnisses auf der affinen Ebene. (Russian and Czech summaries) [On the existence of an order ratio in the affine plane] **88d:51011**
 Pahlisch, Elke See Kloth, Siegfried, **88g:51019**
 Tecklenburg, Helga A proof of the theorem of Pappus in finite Desarguesian affine planes. **88j:51013**
 Van Maldeghem, H. On locally finite alternative division rings with valuation. **88j:17001**
 Wallgóra, Bogusława On some system of axioms of central similarity geometry. **88a:51003**

51A35 Non-Desarguesian affine and projective planes

Items secondarily classified 51A35

- Caggegi, Andrea Some new generalized André systems. **88i:51004**
 Castrucci, Benedito (with Ramos, Sílvia Maria Ferreira) A non-Desarguesian finite plane model of order 27. (Portuguese) **88e:51013**
 Funk, M. On configurations in translation planes of positive characteristic. **88i:51003**
 Gonçalves, Adilson (with Ho, Chat Yin) On flag collineations of finite projective planes. **88e:51006**
 Ho, Chat Yin See Gonçalves, Adilson, **88e:51006**
 Kalhoff, Franz Zur Archimedisierung projektiver Ebenen. (English summary) [On the Archimedization of projective planes] **88h:51013**
 Machala, František Zur Existenz eines Ordnungsverhältnisses auf der affinen Ebene. (Russian and Czech summaries) [On the existence of an order ratio in the affine plane] **88d:51011**
 Ramos, Sílvia Maria Ferreira See Castrucci, Benedito, **88e:51013**
 Spera, Antonino Giorgio Infinite Betten-Walker planes and some applications. (Italian. English summary) **88e:51005**
 Van Maldeghem, H. Nonclassical triangle buildings. **88g:51014**

51A40 Translation planes and spreads

- Caggegi, Andrea Some new generalized André systems. **88i:51004**
 Heimbeck, Günter Regelflächensystemen. (English summary) [Systems of ruled surfaces] **88e:51004**
 Maurer, Helmut Die affine Projektivitätsgruppe der Halbebenen. [The affine group of projectivities of the half planes] **88g:51004**
 Ostrom, T. G. Reducibility in finite translation planes. **88e:51001**
 Spera, Antonino Giorgio Infinite Betten-Walker planes and some applications. (Italian. English summary) **88e:51005**

Items secondarily classified 51A40

- Barriga, Oscar E. On the planes of Narayana Rao and Satyanarayana. **88e:51011**
 Bartolone, C. (with Ostrom, T. G.) Translation planes of order q^3 which admit $SL(2, q)$. **88a:51010**

- Bartolozzi, Federico Finite projective planes of class II_1 in the Lenz-Barlotti classification, and their collineation groups. (Italian) **88e:51012**
 Boerner-Lantz, Victoria A class of semifields of order q^4 . **88b:51015**
 Fink, John B. (with Kallaher, Michael J.) Simple groups acting on translation planes. **88j:51009**
 Funk, M. On configurations in translation planes of positive characteristic. **88i:51003**
 Ganley, Michael J. (with Jha, Vikram) On translation planes with a 2-transitive orbit on the line at infinity. **88a:51012**
 Grundhöfer, Theo (with Strambach, Karl) Die affinen Projektivitätsgruppen der lokalkompakten zusammenhängenden Translationsebenen. [The affine projectivity groups of the locally compact connected translation planes] **88b:51020**
 Hahl, Hermann Eine Kennzeichnung der Oktavenebene. (English summary) [A characterization of the octonion plane] **88d:51013**
 Heden, Olof Maximal partial spreads and two-weight codes. **88e:51020**
 Herzer, Armin (with Lunardon, Guglielmo) A characterization of Galois spreads. (Italian. English summary) **88e:51021**
 Hiramine, Yutaka On translation planes of order q^3 with an orbit of length $q^3 - 1$ on L_∞ . **88a:51013**
 Ivanov, D. N. Orthogonal decompositions of Lie algebras of type A_{p-1} , and isotropic fibrations. (Russian) **88i:17013**
 Jha, Vikram (with Johnson, Norman Lloyd¹) On the nuclei of semifields and Cofman's many-subplane problem. **88m:51010**
 (with Johnson, Norman Lloyd¹) Baer involutions in translation planes admitting large elation groups. **88j:51010**
 See also Ganley, Michael J., **88a:51012**
 Johnson, Norman Lloyd¹ Finite translation planes of dimension two. **88e:51014**
 See also Jha, Vikram, **88j:51010** and **88m:51010**
 Jousien, Jakob Über fastgeordnete affine Ebenen. (English summary) [On nearly ordered affine planes] **88g:51023**
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 Karzel, Helmut J. Couplings and derived structures. **88g:51031**
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 (with Satyanarayana, K.; Vithal Rao, G.) On a class of translation planes of square order. **88i:51010**
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 Pieper-Seier, Irene Über ebene affine Inzidenzgruppen. (English summary) [On plane affine incidence groups] **88a:51025**
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 Satyanarayana, K. See Narayana Rao, M. L.; et al., **88h:51010**
 Strambach, Karl See Grundhöfer, Theo, **88b:51020**
 Subba Rao, G. V. See Narayana Rao, M. L.; et al., **88h:51006**
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- Hohenberg, Fritz Paare von Kegelschnitten in zweifacher Dreiecksschließungslage. II. [Pair of conics in double triangular closure position. II] 88j:51033
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Yin, Jing Yao On a class of trigonometric inequalities for simplices and an improvement of the higher-dimensional law of sines. (Chinese) 88k:51047

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- Denisova, N. S. A result of the application of the quasi-Cartan algorithm to the group of motions and comotions of a quasihyperbolic space. (Russian) 88i:51029
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- Kasymova, S. S. Semi-non-Euclidean spaces over an algebra of real matrices. (Russian) 88e:53019

51N30 Geometry of classical groups [See also 20Gxx, 14Lxx.]

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- Benz, W. An elementary proof of the theorem of Beckman and Quares. 88c:51012
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- Biscarini, Paola Hermitian n -curves in countable planes. (Italian. English summary) 88j:51037
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- Stary, Maria Zum Aussen- und Innengebiet von Quadriken. (English summary) [The outer and inner domains of quadrics] 88f:51031
- Stoev, Gancho See Grigorov, Kh., 88f:51030
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- Baglaev, I. I. Linear systems of hyperquadrics in A_n . (Russian) (See 88j:53001)
- Bos, H. J. M. (with Kers, C.; Oort, Frans; Raven, D. W.) Poncelet's closure theorem. 88m:14041
- Degoll, Lando On hypersurfaces generated by the Jacobian of a linear system of quadrics. (Italian. English summary) 88b:14053
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- (with Marková, Libuše) On inflection points of the plane quartic with two nodal and one flexnodal points. (Russian and Czech summaries) 88a:14036
- Kuznetsova, V. A. (with Skopets, Z. A.) Variety of vertices of quadratic cones with six base points. (Russian) 88d:14032
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- Mochernyuk, N. T. Cubical surfaces and congruences. (Russian) 88i:53024
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- Raven, D. W. See Bos, H. J. M.; et al., 88m:14041
- Rosenfeld, B. A. (with Polovtseva, M. A.) Segreans and their application to the geometry of families of lines and planes. (Russian) 88j:14065
- Skopets, Z. A. See Kuznetsova, V. A., 88d:14032

51N99 None of the above, but in this section

- Crapo, Henry (with Ryan, Juliette) Réalisations spatiales des scènes linéaires. [Spatial realizations of linear scenes] 88d:51017
- Ryan, Juliette See Crapo, Henry, 88d:51017

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- Alsina, Claudi (with Sklar, A.) A characterization of continuous associative operations whose graphs are ruled surfaces. 88j:39011
- French, Robert E. The geometry of visual space. 88g:92043
- Gibson, C. G. (with Newstead, P. E.) On the geometry of the planar 4-bar mechanism. 88a:14037
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- Sklar, A. See Alsina, Claudi, 88j:39011

52-XX Convex sets and related geometric topics

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- Levcopoulos, Christos See Lingas, Andrzej; et al., (Not in MR)
- Lingas, Andrzej (with Levcopoulos, Christos; Sack, Jörg) Algorithms for minimum length partitions of polygons. (Not in MR)
- Sack, Jörg See Lingas, Andrzej; et al., (Not in MR)
- Wojciechowski, Krzysztof P. Recursive measurement data filtration with uncertainty described by convex polyhedra. (Not in MR)

52-02 Advanced exposition (research surveys, monographs, etc.)

- Bonnesen, T. (with Fenchel, W.) ★ Theory of convex bodies. 88j:52001
- (Boron, L. F.) See Bonnesen, T., 88j:52001
- (Christenson, C.) See Bonnesen, T., 88j:52001
- Fenchel, W. See Bonnesen, T., 88j:52001
- (Smith, Bryan A.) See Bonnesen, T., 88j:52001

Items secondarily classified 52-02

- Cole, Richard John (with Sharir, Micha; Yap, Chee-Keng) On k -hulls and related problems. 88b:68179
- Gruber, Peter M. (with Lekkerkerker, C. G.) ★ Geometry of numbers. 88j:11034
- Hargittai, István Limits of perfection. 88f:92061
- Lekkerkerker, C. G. See Gruber, Peter M., 88j:11034
- Sharir, Micha See Cole, Richard John; et al., 88b:68179

- Yap, Chee-Keng See Cole, Richard John; et al., 88b:68179

52-03 Historical (must also be assigned at least one classification number from Section 01)

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- Bohm, Johannes (with Hertel, Eike) Jenaer Beiträge zur diskreten Geometrie. (English and Russian summaries) [Jena's contributions to discrete geometry] 88i:01156
- Danilova, N. I. The development of the traditional methods of isoperimetric theory. (Russian) 88f:01010
- Hertel, Eike See Bohm, Johannes, 88i:01156
- Van Bendegeem, Jean Paul Discussion: Zeno's paradoxes and the tile argument. 88c:03007

52-04 Explicit machine computation and programs (not the theory of computation or programming)

- Andersson, Lars-Erik (with Hurteau, G.; Stewart, N. F.) A maximal distance result of interest in robotic simulation. 88m:52001
- Baracs, Janos J. (with Chourot, Nicolas) MOSEDIT—a short guided tour. (French summary) 88k:52001
- Chourot, Nicolas See Baracs, Janos J., 88k:52001
- Dehne, Frank (with Sack, Jörg) Separability of sets of polygons (preliminary version). 88h:52001
- Hurteau, G. See Andersson, Lars-Erik; et al., 88m:52001
- Korneenko, N. M. The search for transversal lines for sets of convex figures in a plane. (Russian. English summary) 88c:52001
- Sack, Jörg See Dehne, Frank, 88h:52001
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- Asano, Takao (with Asano, Tetsuo) Voronoi diagram for points in a simple polygon. (See 88b:68002)
- (with Asano, Tetsuo; Imai, Hiroshi) Shortest path between two simple polygons. 88b:68177
- Asano, Tetsuo (with Toussaint, Godfried T.) Computing the geodesic center of a simple polygon. (See 88b:68002)
- See also Asano, Takao; et al., 88b:68177 and 88b:68002
- Aurenhammer, Franz Power diagrams: properties, algorithms and applications. 88d:68096
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- (with El-Gindy, Hossam A.) Triangulating point sets in space. 88b:68062
- Belor, Yu. A. The representation of a polyhedron as a convex hull of vertices. (Russian) 88m:52018
- Broder, Andrei Z. (with Simons, Barbara) Placing tiles in the plane. (See 88f:68004)
- Cărașu, Al. See Rimer, David, 88j:92103
- Clarkson, Kenneth L. New applications of random sampling in computational geometry. 88c:68098
- Cole, Richard John (with Yap, Chee-Keng) Shape from probing. 88a:68097
- Dwyer, Rex A. A faster divide-and-conquer algorithm for constructing Delaunay triangulations. 88b:68100
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- El-Gindy, Hossam A. (with Toussaint, Godfried T.) On computing and updating triangulations. (See 88f:68004)
- See also Avis, David, 88b:68082
- Fortune, Steven A sweepline algorithm for Voronoi diagrams. 88b:68101
- Guibas, Leo J. (with Hershberger, John; Leven, Daniel; Sharir, Micha; Tarjan, Robert E.) Linear-time algorithms for visibility and shortest path problems inside triangulated simple polygons. 88b:68102
- (with Seidel, Raimund) Computing convolutions by reciprocal search. 88d:68098
- Hausser, David (with Welzl, Emo) ϵ -nets and simplex range queries. 88d:68099
- Hershberger, John See Guibas, Leo J.; et al., 88b:68102
- Hong, Jia Rong See Plaisted, David A., 88b:68104
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- Jaromczyk, J. W. Complexity bounds and Euclidean space partitioning. 88i:68042
- Kundu, Sukhamay A new $O(n \cdot \log n)$ algorithm for computing the intersection of convex polygons. (Not in MR)
- Lawson, Charles L. Properties of n -dimensional triangulations. 88b:68084
- Levcopoulos, Christos Improved bounds for covering general polygons with rectangles. (See 88k:68004)
- (with Lingas, Andrzej) On approximation behavior of the greedy triangulation for convex polygons. 88b:68103
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- Leven, Daniel (with Sharir, Micha) Planning a purely translational motion for a convex object in two-dimensional space using generalized Voronoi diagrams. 88i:68092
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- Melkman, Avraham A. On-line construction of the convex hull of a simple polyline. 88f:68134
- Mesa Henriquez, Antonio UNY: an algorithm for the union of two nonconvex multiconnected open polygonal sets. (Spanish. English summary) (Not in MR)
- Mitchell, Joseph S. B. (with Mount, David M.; Papadimitriou, Christos H.) The discrete geodesic problem. 88m:68055
- Mount, David M. Storing the subdivision of a polyhedral surface. 88d:68100

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52-06 Proceedings, conferences, etc.

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52A01 Axiomatic and generalized convexity

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Nieminen, Juhani Cluster analysis, r -ary relations, chaining and convexities of graphs. 88c:05065

van de Vel, Marcel See van Mill, J., 88f:54070

52A05 Convex sets without dimension restrictions

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Pais, A. Gameiro Cone extreme points and faces. 88g:52001

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(Pisier, Gilles) See Pajor, Alain, 88h:46028

Vesely, Libor On the multiplicity points of monotone operators of separable Banach spaces. 88c:47108

52A07 Convex sets in topological vector spaces [See also 46A55.]

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De Blasi, F. S. (with Myjak, J.) Weak convergence of convex sets in Banach spaces. 88d:46019

Jiang, Duo (with Jiang, Xun) On \ast -separation theorems for convex sets. (Chinese. English summary) 88f:46018

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Liu, Zheng A sufficient condition for K -smooth spaces. 88k:46018

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Toitor, Sh. M. A criterion for cones in locally convex spaces to admit plastering and to be normal. (Russian. Tajiki summary) 88f:46012

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52A10 Convex sets in 2 dimensions

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52A15 Convex sets in 3 dimensions

- Campi, Stefano Reconstructing a convex surface from certain measurements of its projections. (Italian summary) 88f:52004
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52A20 Convex sets in n dimensions

- Bair, Jacques Sur la décomposition d'un espace vectoriel en la somme d'un convexe et d'un sous-espace. [On the decomposition of a vector space into the sum of a convex set and a subspace] 88j:52005
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[See also 53C65, 60D05.]

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52A30 Invariants of convex sets (star-shaped, (m, n) -convex, etc.)

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52A40 Inequalities and extremum problems

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- Temesvári, Ágota H.** Die dünnste gitterförmige 5-fache Kreisüberdeckung der Ebene. [The thinnest lattice-like 5-fold covering of the plane by circles] 88k:52024
- Über die lockere doppelgitterförmige 2-fache Überdeckung der Ebene mit

- Einheitskreisen. [On the loose double-lattice 2-fold covering of the plane with unit discs] 88m:52028
- Tricot, Claude. See Klee, Victor, 88f:52022
- Tufanman, M. A. See Litsyn, S. N., 88g:52012
- Vádrhety, É. An isoperimetric problem for tilings. 88j:52039
- Vermes, Imre. Regular coverings of the hyperbolic plane by congruent hypercyclic domains. (Hungarian) 88d:52016
- Über eine geometrische Ungleichung bezüglich der Dichte der regulären Ausfüllungen der hyperbolischen Ebene durch kongruente Hyperzykelbereiche. [On a geometric inequality concerning the density of the regular packings of the hyperbolic plane by congruent hypercyclic domains] 88k:52025
- Wegner, Gerd. Extremale Groemerpackungen. [Extremal Groemer packings] 88f:52025
- Über endliche Kreispäckungen in der Ebene. [On finite circle packings in the plane] 88i:52024
- Weidbach, Bernulf. Polyhedral covers. 88j:52040
- Wengerdt, Gerhard. Die dichteste Packung von 14 Kreisen in einem Quadrat. [The densest packing of 14 circles in a square] 88g:52014
- See also Kirchauer, Kerstin, 88g:52010
- Wildgrube, Eckhard. Über regulär pflasterbare konvexe Polygone. [On regular tiled convex polygons] 88j:52041
- Wills, J. M. See Gritzmann, P., 88h:52022
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- Zalutskii, I. I. Classical and generalized symmetry in the symbolism of close packing of spheres. 88m:52029
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- Baer, Detlef (with Mögling, Werner). Über Punktverteilungen im Quadrat mit speziellem Abstand. [On point distributions in the square with special distance] 88m:52017
- Ball, Keith. Inequalities and sphere-packing in \mathbb{R}_p . 88i:46027
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- Bezdek, A. (with Bezdek, K.). When is it possible to translate a convex polyhedron in an other one? 88j:52014
- Bezdek, K. See Bezdek, A., 88j:52014
- Bolle, U. Über die Dichte mehrfacher gitterförmiger Kreisanordnungen in der Ebene. [On the density of multiple lattice-arrangements of circles in the plane] 88c:11042
- Bombieri, E. (with Taylor, Jean E.). Which distributions of matter diffract? An initial investigation. 88a:52015
- Bourgain, J. On lattice packing of convex symmetric sets in \mathbb{R}^n . 88k:52015
- Brooks, Robert. Circle packings and co-compact extensions of Kleinian groups. 88b:32050
- de Bruijn, N. G. Quasicrystals and their Fourier transform. 88b:05047
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- Crowe, D. W. The mosaic patterns of H. J. Woods. 88a:05047
- Danzer, Ludwig. Finite point-sets on S^2 with minimum distance as large as possible. 88f:52014
- Dauenhauser, Mary H. (with Zassenhaus, H.). Local optimality of the critical lattice sphere-packing of regular tetrahedra. 88j:11033
- Dymkov, M. P. Minimal points of p -convex sets. (Russian. English summary) 88m:90113
- Edelsbrunner, H. (with Hausser, David). The complexity of cells in three-dimensional arrangements. 88b:52022
- Florian, A. Approximation of convex discs by polygons. 88b:52002
- Frank, F. C. The icosahedral orientation manifold as a model for icosahedral close-packing. 88b:51018
- Fuglede, Bent. Continuous selection in a convexity theorem of Minkowski. 88f:52005
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- Gilbert, William J. The fractal dimension of sets derived from complex bases. 88b:28014
- Grünbaum, Branko (with Shephard, G. C.). Circular disk patterns on a sphere. 88f:51022
- Hausser, David. See Edelsbrunner, H., 88b:52022
- Henley, Christopher L. Origins of quasicrystal ordering. 88b:82065
- Hertel, Elke. Zerlegungssähnlichkeit von Polygonen. [Decomposition similarity of polygons] 88b:52012
- Horváth, Jenő (p, q)-Punktsysteme in der Minkowskischen Ebene. [(p, q) -point systems in the Minkowski plane] 88d:52013
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- Korepin, V. E. Completely integrable models in quasicrystals. 88m:82041
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- Pandorin, A. K. See Stoyan, Yu. G., 88c:90132
- Peyrière, Jacques. Fréquence des motifs dans les suites doubles invariantes par une substitution. [Frequency of patterns in double sequences invariant under a substitution] 88i:52008
- Prisakaru, A. V. See Prisakaru, K. F., 88i:05147
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- Ramharter, G. Lattice coverings and the diagonal group. 88d:11061
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- Shih, Mou Hsiang (with Tan, Kok-Keong). Covering theorems of simplexes and systems of linear inequalities. 88b:52024
- Sloane, N. J. A. See Rush, Jason A., 88j:11035
- Stein, S. K. Splitting groups of prime order. 88g:20049
- Stoyan, Yu. G. (with Pandorin, A. K.). Optimization of the packings of plane polygons. (Russian. English summary) 88c:90132
- Szabó, Sándor. A reduction of Keller's conjecture. 88j:52032
- Szeto, K. Y. (with Villain, J.). Filling three-dimensional space with tetrahedra: a geometric and crystallographic problem. 88j:51030
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- Taylor, Jean E. See Bombieri, E., 88a:52015
- Temesvári, Ágota H. (with Horváth, Jenő; Yakovlev, N. N.). A method for finding the densest lattice k -fold packing of circles. (Russian) 88i:11041
- Tomczak-Jaegermann, N. See Milman, Vitali D., 88j:52024
- Villain, J. See Szeto, K. Y., 88j:51030
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- Worley, R. T. The Voronoi region of E_8 . 88i:11040
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- Yakovlev, N. N. See Temesvári, Ágota H., et al., 88i:11041
- Zassenhaus, H. See Dauenhauser, Mary H., 88j:11033
- 52A50 Hilbert geometry [See also 51Kxx.]**
- Items secondarily classified 52A50**
- Woźniak, Krzysztof. Properties of generalized segments and lines in normed spaces. (Polish. English summary) 88k:51036
- 52A55 Spherical and hyperbolic convexity**
- Böhm, Johannes. Schläefli's differential form in the non-Euclidean geometry of polytopes and some of its applications. 88k:52026
- Items secondarily classified 52A55**
- Awartani, Marwan (with Henderson, David W.). Spaces of geodesic triangulations of the sphere. 88m:57028
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- Seidel, J. J. On the volume of a hyperbolic simplex. 88k:51040
- 52A99 Miscellaneous topics**
- Bisztriczky, Tibor. Some examples in projective convexity. 88b:52025
- Jiang, Pei Rong. On convexity of $S(\eta_1, \eta_2)$ projected from random intervals. (Chinese. English summary) 88i:52025
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- Blokhuis, A. (with Post, K. A.; van Pul, Cornelis Leonardus Maria). Note on a theorem of Wlk. 88k:52014
- Castagnoli, E. (with Mazzoleni, P.). Generalized connectedness for families of arcs. 88a:90168
- Crapo, Henry (with Ryan, Juliette). Réalisations spatiales des scènes linéaires. [Spatial realizations of linear scenes] 88d:51017
- Drewniak, Józef. Convex and strongly convex fuzzy sets. 88c:03080
- Matloka, Marian. On fuzzy mappings and their properties. 88d:03107
- Mazzoleni, P. See Castagnoli, E., 88a:90168
- Mishchenko, A. S. See Pontryagin, L. S., 88d:90148
- Pontryagin, L. S. (with Mishchenko, A. S.). A linear differential game of pursuit (analytic theory). 88d:90148
- Post, K. A. See Blokhuis, A., et al., 88k:52014
- van Pul, Cornelis Leonardus Maria. See Blokhuis, A., et al., 88k:52014
- Ryan, Juliette. See Crapo, Henry, 88d:51017
- 53-XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}**
- 53-00 Handbooks, dictionaries, and other reference works**
- Items secondarily classified 53-00**
- Barth, Wolf Paul (with Böhm, Johannes; do Carmo, Manfredo; Fischer, Gerd; Knörrer, Horst; Leiterer, Jürgen; Pinkall, U.; Quaisser, Erhard; Reckziegel, Helmut) ★ Mathematical models. 88c:00001
- Böhm, Johannes. See Barth, Wolf Paul, et al., 88c:00001
- do Carmo, Manfredo. See Barth, Wolf Paul, et al., 88c:00001
- Fischer, Gerd. See Barth, Wolf Paul, et al., 88c:00001 and Mathematical models, 88c:00006
- Knörrer, Horst. See Barth, Wolf Paul, et al., 88c:00001
- Leiterer, Jürgen. See Barth, Wolf Paul, et al., 88c:00001
- Pinkall, U. See Barth, Wolf Paul, et al., 88c:00001
- Quaisser, Erhard. See Barth, Wolf Paul, et al., 88c:00001
- Reckziegel, Helmut. See Barth, Wolf Paul, et al., 88c:00001

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- Mathematical models ★ Mathematische Modelle. (German) [Mathematical models] 88c:00006
 Mathematische Modelle ★ Mathematische Modelle. (German) [Mathematical models] 88c:00006

53-01 Elementary exposition; textbooks

- Berger, Marcel (with Gostiaux, Bernard) ★ Differential geometry: manifolds, curves, and surfaces. 88b:53001
 Gallot, Sylvestre (with Hulin, D.; Lafontaine, Jacques) ★ Riemannian geometry. 88k:53001
 Gostiaux, Bernard See Berger, Marcel, 88b:53001
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 Lafontaine, Jacques See Gallot, Sylvestre; et al., 88k:53001
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 Okubo, Tanjirō ★ Differential geometry. 88m:53001

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- (Ashtekar, Abhay) See Cartan, Élie, 88b:01071
 Budak, Boris M. (with Fomin, S. V.) ★ Integrali multipli e serie. (Italian) [Multiple integrals and series] 88f:00001
 Cartan, Élie ★ On manifolds with an affine connection and the theory of general relativity. 88b:01071
 Crampin, M. (with Pirani, F. A. E.) ★ Applicable differential geometry. 88i:58001
 Fomin, S. V. See Budak, Boris M., 88f:00001
 (Guillemin, Victor) See Sternberg, Shlomo, 88f:58001
 Kobayashi, Shoshichi ★ Setsuzoku no riron nyumon. (Japanese) [Introduction to the theory of connections] 88h:53033
 (Koretzki, Vitali) See Budak, Boris M., 88f:00001
 (Magnon, Anne) See Cartan, Élie, 88b:01071
 Pirani, F. A. E. See Crampin, M., 88i:58001
 Sasaki, Shigeo ★ Bibun kikagaku. Kyōkumen ron. I, II. (Japanese) [Differential geometry. Theory of surfaces. I, II] 88c:53008
 Sternberg, Shlomo ★ Lectures on differential geometry. 88f:58001
 (Trautman, Andrzej) See Cartan, Élie, 88b:01071

53-02 Advanced exposition (research surveys, monographs, etc.)

- Anastasiei, Mihai See Miron, Radu, 88m:53002
 (Ikeda, Satoshi) See Miron, Radu, 88m:53002
 Lee, John M. (with Parker, Thomas H.) The Yamabe problem. 88f:53001
 Miron, Radu (with Anastasiei, Mihai) ★ Fibrat vectoriale. Spatii Lagrange. Aplicatii in teoria relativitatii. (Romanian) [Vector bundles. Lagrange spaces. Applications to the theory of relativity] 88m:53002
 Parker, Thomas H. See Lee, John M., 88f:53001
 Wolf, Joseph A. ★ Spaces of constant curvature. 88k:53002
 Yau, Shing-Tung ★ Nonlinear analysis in geometry. 88e:53001

Items secondarily classified 53-02

- Barbosa, J. Lucas (with Colares, A. Gervasio) ★ Minimal surfaces in \mathbb{R}^3 . 88f:53006
 Besse, Arthur L. ★ Einstein manifolds. 88f:53087
 Colares, A. Gervasio See Barbosa, J. Lucas, 88f:53006
 Finn, Robert ★ Equilibrium capillary surfaces. 88f:49001
 Koszul, Jean-Louis ★ Lectures on fibre bundles and differential geometry. 88e:53040
 (Ramann, S.) See Koszul, Jean-Louis, 88e:53040

53-03 Historical (must also be assigned at least one classification number from Section 01)

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- Athanassenas, Maria ★ A variational problem for constant mean curvature surfaces with free boundary. 88j:49027
 Barth, Wolf Paul (with Böhm, Johannes; do Carmo, Manfredo; Fischer, Gerd; Knörrer, Horst; Leiterer, Jürgen; Pinkall, U.; Quaißer, Erhard; Reckziegel, Helmut) ★ Mathematical models. 88c:00001
 Böhm, Johannes See Barth, Wolf Paul; et al., 88c:00001
 do Carmo, Manfredo See Barth, Wolf Paul; et al., 88c:00001
 Fischer, Gerd See Barth, Wolf Paul; et al., 88c:00001
 Knörrer, Horst See Barth, Wolf Paul; et al., 88c:00001
 Laptov, B. L. (with Lipatov, N. S.; Lovkov, A. A.; Sultanov, A. Ya.) Development of the theory of motions in generalized spaces (on the work of I. P. Egorov and his school). (Russian) 88f:01031
 Leiterer, Jürgen See Barth, Wolf Paul; et al., 88c:00001
 Lipatov, N. S. See Laptov, B. L.; et al., 88f:01031
 Lovkov, A. A. See Laptov, B. L.; et al., 88f:01031
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 Reckziegel, Helmut See Barth, Wolf Paul; et al., 88c:00001
 Sultanov, A. Ya. See Laptov, B. L.; et al., 88f:01031
 Vîgîlin, Vi. P. Between mechanics and mathematics: analytical mechanics as a factor in the development of mathematics (the nineteenth century). (Russian) 88i:01058

53-04 Explicit machine computation and programs (not the theory of computation or programming)

- Klok, Föpke Two moving coordinate frames for sweeping along a 3D trajectory. 88b:53001
 Items secondarily classified 53-04
 Concus, Paul (with Miranda, Mario) MACSYMA and minimal surfaces. 88b:49061
 Hoffman, David A. The computer-aided discovery of new embedded minimal surfaces. 88g:53012
 Joly, G. C. The verification of Killing tensor components for metrics in general relativity using the computer algebra system SHEEP. 88f:83001
 Miranda, Mario See Concus, Paul, 88b:49061
 Wu, Wen Jun A constructive theory of differential algebraic geometry based on works of J. F. Ritt with particular applications to mechanical theorem-proving of differential geometries. 88g:03023

53-06 Proceedings, conferences, etc.

- (Bazylev, V. T.) See Geometry of imbedded manifolds, 88h:53002
 (Berger, Marcel) See Differential geometry and differential equations, 88b:53002
 (Bryant, Robert) See Differential geometry and differential equations, 88b:53002
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 (Verner, A. L.) See Riemannian spaces and methods of the theory of elliptic differential equations, 88g:53003

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- Brno ★ Differential geometry and its applications. 88g:53001
 ★ Differential geometry and its applications. Communications. 88g:53002
 Colloquia Mathematica Societatis János Bolyai ★ Topics in differential geometry. Vol. I, II. 88j:53002
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 Geometry collection ★ Геометрический сборник. Вып. 23. (Russian) [Geometry collection. No. 23] 88j:53001
 Geometry of imbedded manifolds ★ Геометрия погруженных многообразий. (Russian) [The geometry of imbedded manifolds] 88h:53002
 Itogi Nauki i Tekhniki ★ Проблемы геометрии. Том 18. (Russian) [Problems of geometry. Vol. 18] 88b:53003
 Lecture Notes in Mathematics ★ Differential geometry and differential equations. 88b:53002
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 Lyon ★ Feuilletages riemanniens, quantification géométrique et mécanique. (French) [Riemannian foliations, geometric and mechanical quantization] 88k:53003
 Problems of geometry ★ Проблемы геометрии. Том 18. (Russian) [Problems of geometry. Vol. 18] 88b:53003
 Riemannian foliations, geometric and mechanical quantization ★ Feuilletages riemanniens, quantification géométrique et mécanique. (French) [Riemannian foliations, geometric and mechanical quantization] 88k:53003
 Riemannian spaces and methods of the theory of elliptic differential equations ★ Римановы пространства и методы теории эллиптических дифференциальных уравнений. (Russian) [Riemannian spaces and methods of the theory of elliptic differential equations] 88g:53003
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 Seminar :
 Geometry ★ Feuilletages riemanniens, quantification géométrique et mécanique. (French) [Riemannian foliations, geometric and mechanical quantization] 88k:53003

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★ Ткачи и квазигруппы. (Russian) [Webs and quasigroups] 88b:53004

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(Coll, Bartolomé) See Geometry and physics, 88e:58004

(Engliš, P.) See Seminar: Geometry, 88i:51002

(García, Pedro L.) See Differential geometric methods in mathematical physics, 88b:58002

(Hutchinson, John E.) See Miniconference on geometry and partial differential equations, 88j:35005

(Kerner, Richard) See Geometry and physics, 88e:58004

(Lichnerowicz, André) See Geometry and physics, 88e:58004

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(Martia, Clyde) See Differential geometry: the interface between pure and applied mathematics, 88j:00019

(Pérez-Rendón, A.) See Differential geometric methods in mathematical physics, 88b:58002

(Shadwick, William) See Differential geometry: the interface between pure and applied mathematics, 88j:00019

(Simon, Leon) See Miniconference on geometry and partial differential equations, 88j:35005

(Tarján, M.) See Seminar: Geometry, 88i:51002

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Canberra ★ Miniconference on geometry and partial differential equations. 2. 88j:35005

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Geometry and physics ★ Géométrie et physique. (French) [Geometry and physics] 88e:58004

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Salamanca ★ Differential geometric methods in mathematical physics. 88b:58002

San Antonio, Tex. ★ Differential geometry: the interface between pure and applied mathematics. 88j:00019

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Geometry ★ Seminar on geometry. 88i:51002

Study of Riemannian geometry by analytic methods ★ Study of Riemannian geometry by analytic methods. 88e:58008

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Study of Riemannian geometry by analytic methods ★ Study of Riemannian geometry by analytic methods. 88e:58008

Topology and geometry of harmonic maps ★ Topology and geometry of harmonic maps. (Japanese) 88i:58042

Topology and geometry of harmonic maps ★ Topology and geometry of harmonic maps. (Japanese) 88i:58042

53Axx Classical differential geometry

53A04 Curves in Euclidean space

Abresch, U. (with Langer, Joel) The normalized curve shortening flow and homothetic solutions. 88d:53001

Banchoff, Thomas (with Giblin, P. J.) Global theorems for symmetry sets of smooth curves and polygons in the plane. 88j:53003

Bharathi, K. (with Nagaraj, M.) Quaternion valued function of a real variable Serret-Frenet formula. 88b:53005

Çalışkan, M. (with Sivridag, A. I.; Hacısalihoğlu, H. Hilmi) Some characterizations for the natural lift curves and the geodesic sprays. (Turkish summary) 88f:53002

Chen, Bang-yen (with Dillen, F.; Verstraeten, L.) Finite type space curves. 88g:53004

Cieslak, Waldemar (with Zajac, József) A measure of symmetry for ovals. 88m:53003

(with Zajac, József) The rosettes. 88a:53001

Some global properties of plane curves. 88c:53002

(with Mozgawa, Witold) On rosettes and almost rosettes. 88i:53001

Corach, Gustavo (with Porta, Horacio) Curvature and Lipschitz conditions for curves in Euclidean spaces. 88e:53003

Dillen, F. See Chen, Bang-yen; et al., 88g:53004

Epstein, Charles L. (with Weinstein, Michael I.) A stable manifold theorem for the curve shortening equation. 88c:53003

Esin, Erdoğan (with Hacısalihoğlu, H. Hilmi) Umbrella matrices and higher curvatures of a curve. 88k:53004

Giblin, P. J. See Banchoff, Thomas, 88j:53003

Görgülü, Ali (with Özdamar, E.) A generalization of the Bertrand curves as general inclined curves in E^n . 88i:53002

Hacısalihoğlu, H. Hilmi See Çalışkan, M.; et al., 88f:53002 and Esin, Erdoğan, 88k:53004

Izbitskaya, G. N. Real curves in a complex Hermitian Euclidean N -space. (Russian) (See 88j:53001)

Kamiya, Hisao Singular points of curve families on surfaces. 88a:53002

Kulisch, Moyses Leão A characterization of circumference. (Spanish) (Not in MR)

Langer, Joel See Abresch, U., 88d:53001

Manning, Gerald S. The winding of a relaxed elastic line on a cylinder. 88k:53005

Relaxed elastic line on a curved surface. 88m:53004

Maryakov, M. N. On nets invariantly connected with a pair of p -distributions in E_n . (Russian) 88k:53006

Mozgawa, Witold See Cieslak, Waldemar, 88i:53001

Mu, Yu Jie (with Ye, Zheng Lin) On rational parametric cubic space curves. (Chinese. English summary) 88f:53003

Nagaraj, M. See Bharathi, K., 88b:53005

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- Pankowitsch, Peter Von der Berührung zur Formung von Flächen. [From osculation to generation of surfaces] **88c:53006**
- Pavšić, M. String model for general relativity and canonical formalism for minimal surfaces. (Italian and Russian summaries) **88m:53141**
- Peletier, L. A. (with Serrin, James) Ground states for the prescribed mean curvature equation. **88c:35078**
- Rassias, Themistocles M. ★ Foundations of global nonlinear analysis. **88c:58001**
- Rozendorn, E. R. Geodesic curvature of asymptotic lines and mean curvature of a surface in a neighborhood of a weakly singular point. (Russian) **88c:53007**
- Rubinstein, J. H. See Jaco, William, **88a:57023**
- Scott, Peter See Gulliver, Robert, **88k:57018**
- Serrin, James See Peletier, L. A., **88c:35078**
- Smale, Nathan A bridge principle for minimal and constant mean curvature submanifolds of \mathbb{R}^n . **88i:53101**
- Spruck, J. On the global structure of solutions to some semilinear elliptic problems. **88b:35043**
- Struwe, Michael Free boundary problems for surfaces of constant mean curvature. **88a:58056**
- Tam, Luen-Fai On existence criteria for capillary free surfaces without gravity. **88a:49023**
- Tomter, Per The spherical Bernstein problem in even dimensions and related problems. **88k:53083**
- Wente, Henry C. Immersed tori of constant mean curvature in \mathbb{R}^3 . **88b:53073**
- Williams, Graham H. Global regularity for solutions of the minimal surface equation with continuous boundary values. (French summary) **88a:35103**
- The best modulus of continuity for solutions of the minimal surface equation. **88i:35060**

53A15 Affine differential geometry

- Andreev, B. A. Special characteristic configurations of the mapping $f_a: A_m \rightarrow A_n$ ($m \geq n$). (Russian) **88i:53016**
- Baglavi, I. L. Linear systems of hyperquadrics in A_n . (Russian) (See **88j:53001**)
- Cheshkova, M. A. On a mapping of affine spaces of rank $n-1$. (Russian) **88i:53017**
- Ionia, V. K. A method for representing an affine structure. (Russian) (See **88j:53001**)
- Ivanchin, N. A. The spaces $A_4(x, \dot{x})$ with four-term groups of motions. (Russian) **88f:53014**
- Kretov, M. V. Complexes of ellipsoids with special properties of the differentiable mappings associated with them. (Russian) **88m:53022**
- Mitrofanova, E. A. Manifolds of m -dimensional paraboloids. (Russian) **88j:53011**
- Podran, V. E. Two classes of hypersurfaces of an affine space admitting a nonparametric definition. (Russian) **88k:53020**
- Sasaki, Takeshi On affine isoperimetric inequality for a strongly convex closed hypersurface in the unimodular affine space A^{n+1} . **88f:53015**
- Simon, Udo Connections and conformal structure in affine differential geometry. **88m:53023**
- Sopina, E. P. On invariant images associated with the congruence of central nondegenerate hyperquadrics. (Russian) **88j:53012**
- Tanirbergenov, S. A. On systems of curvilinear coordinates on an affine plane with constant coefficients of translation. (Russian) (See **88c:53001**)
- Tsyganok, I. I. Vector fields of reduced rank in a multidimensional affine space. (Russian) **88j:53013**
- Yushkevich, T. N. On the geometry of the affine three-component distribution $\mathcal{P}(M(A))$. (Russian) **88m:53024**
- Zharikova, L. A. On some geometric properties of the congruence of parabolas. (Russian) **88k:53021**

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- Antonowicz, Marek On the Bianchi-Bäcklund construction for affine minimal surfaces. **88c:53007**
- Baratta, Maria Antonietta The preservation of parabolic E_4 in a point-to-point mapping between planes. (Italian. English summary) **88c:51039**
- Chakmazyan, A. V. On framings with plane normal connection for a submanifold of an affine space. (Russian) **88d:53012**
- Jankovský, Zdeněk (with Šejdl, Miroslav) Zur äquiformen Geometrie in der Ebene. (Russian and Czech summaries) [On equiform geometry in the plane] **88a:53014**
- Manhart, Friedrich Uneigentliche Relativsphären im dreidimensionalen euklidischen Raum, welche Drehflächen sind. [Improper relative spheres in three-dimensional Euclidean space which are rotational surfaces] **88g:53007**
- Nomizu, Katsumi (with Pinkall, U.) On the geometry of affine immersions. **88c:53089**
- Pinkall, U. See Nomizu, Katsumi, **88c:53089**
- Pogorelov, A. V. Unique determination of affine-minimal hypersurfaces. (Russian) **88m:53019**
- Sasaki, Takeshi On a projectively minimal hypersurface in the unimodular affine space. **88c:53092**
- Šejdl, Miroslav See Jankovský, Zdeněk, **88a:53014**
- Shcherbak, E. A. On congruences of pairs of figures generated by a conic and a point in A_3 . (Russian) **88h:53015**

53A17 Kinematics

- Chobanov, I. (with Stoev, Nikolai) Instantaneous rotations in Hermitian spaces. (Russian and Bulgarian summaries) **88c:53012**
- Colley, Susan Jane The tumbling box. **88b:53010**
- Dizdžioğlu, Bekir Kinematische Geometrie einer speziellen zweiparametrischen Bewegung. (English summary) [Kinematic geometry of a special two-parameter motion] **88c:53017**
- Drábek, Karel (with Šomer, Josef; Štrobl, Jan) An example of planar equiform motion. (Czech. German and Russian summaries) **88j:53014**
- Esin, Erdogan (with Hacısalıhoğlu, H. Hilmi) Curvature matrices and Darboux matrices of motions along a curve. **88f:53016**
- Gottlieb, Daniel H. Robots and fibre bundles. **88g:53015**
- Hacısalıhoğlu, H. Hilmi See Esin, Erdogan, **88f:53016**
- Husty, Manfred Symmetrische Schrotungen im einfach isotropen Raum $J^{(1)}$. [Symmetric helical displacements in simply isotropic space $J^{(1)}$] **88g:53016**
- Jankovský, Zdeněk Incidence connections in plane Möbius motions. (Czech. German and Russian summaries) **88h:53012**
- Karger, Adolf Two-parametric motions in E_3 . (Russian and Czech summaries) **88c:53018**
- Affine space motions with only plane trajectories. **88g:53017**
- Kolarov, Krasimir D. Some generalizations and applications of one geometrical theorem of Holditch. (Bulgarian summary) **88d:53007**
- Konoplev, V. A. The group of motions of a vector space of screws and its kinematic equation. (Russian) **88m:53025**
- Lang, Johann Zur Kinematik des Flaggenraumes. (English summary) [On the kinematics of the flag space] **88f:53017**
- Müller, Hans Robert Ebene Bewegungsvorgänge mit gemeinsamem Steiner-Punkt. [Plane motion processes with common Steiner point] **88m:53026**
- Eine Kennzeichnung der Schraubenbewegungen des euklidischen Raumes. [A characterization of the helical motions in Euclidean space] **88i:53018**
- Otto, Edward A generalization of the theorem of S. Aronhold and B. W. Kennedy. **88m:53027**
- Pottmann, Helmut Zum Satz von Holditch in der euklidischen Ebene. [On the theorem of Holditch in the Euclidean plane] **88d:53008**
- (with Röschel, Otto) Globale Eigenschaften ebener isotroper Zwangsläufe. [Global properties of plane isotropic forced motions] **88g:53018**
- Zur globalen Raumkinematik. (English summary) [On spatial kinematics in the large] **88g:53019**
- Ebene äquiforme Zwangsläufe im Großen. II. [Plane equiform forced motions in the large. II] **88f:53018**
- Rath, Wolfgang Die zweiten Hüllbahnkrümmungen bei ebenen isotropen Zwangsläufen. (English summary) [The second curvatures of enveloping curves in plane isotropic constrained motions] **88j:53015**
- Röschel, Otto Darboux- und Bricard-Bewegungen im Flaggenraum. (English summary) [Darboux and Bricard motions in the flag space] **88d:53009**
- See also Pottmann, Helmut, **88g:53018**
- Schaal, Hermann Konstruktion der Drehzylinder durch vier Punkte einer Ebene. [Construction of rotary cylinders through four points of a plane] **88g:53020**
- Šomer, Josef See Drábek, Karel; et al., **88j:53014**
- Stoev, Nikolai See Chobanov, I., **88c:53012**
- Štrobl, Jan See Drábek, Karel; et al., **88j:53014**
- Wunderlich, W. Ein vierdimensionales Abbildungsprinzip für ebene Bewegungen. (English and Russian summaries) [A four-dimensional mapping principle for planar motions] **88a:53007**
- Polkonfigurationen in der äquiformen Kinematik. (Russian and Czech summaries) [Pole configurations in conformal kinematics] **88g:53021**

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- Dizdžioğlu, Bekir Geometrische Untersuchungen zur Dynamik des starren Körpers. [Geometric investigations on the dynamics of a rigid body] **88h:70004**
- Pottmann, Helmut Über geschlossene sphärische Kurven. [On closed spherical curves] **88g:53005**

53A20 Projective differential geometry

- Akivis, M. A. Conditions for the algebraizability of a triple of curves in a three-dimensional projective space. (Russian) **88i:53019**
- Baimurator, Kh. A. Geometry of a three-dimensional surface V_3 of the projective space P_3 carrying a double family of asymptotic lines. (Russian) **88f:53019**
- Blagoravov, V. V. (with Bronshtein, R. F.) Plane distributions on a hypersurface of a projective space. (Russian) **88h:53013**
- Bronshtein, R. F. See Blagoravov, V. V., **88h:53013**
- Eryatar, A. (with Marcus, Froim) Correspondances asymptotiques et familles de courbes planes invariantes. (Turkish summary) [Asymptotic correspondences and families of invariant plane curves] **88b:53011**
- Glova, N. I. Osculating surfaces of the distribution of the m -dimensional linear elements of the projective space P_n . (Russian) **88i:53020**
- Gluzdov, V. A. Geometry of the first differential neighborhood of the seminonholonomic manifold $SNGr(2, 5, 2)/I$. (Russian) **88c:53013**
- Goldberg, L. G. The third order singular projective deformations of totally focal pseudocongruences of planes in multidimensional projective spaces. **88c:53014**
- Ivlev, E. T. On an invariant section of the fibration $P_{n,m}$ ($n \geq 2$). (Russian) **88h:53014**
- Izmailova, T. S. Projective-differential properties of a projectively paratactic pair in P_n . (Russian) **88j:53016**
- Khudenko, V. N. Stratifiable pairs of figures in multidimensional projective spaces. (Russian) **88i:53021**
- Korneva, I. P. Congruences of conics belonging to a one-dimensional manifold of quadrics. (Russian) **88j:53017**
- Korsakova, L. G. The characteristic pair of congruences of conics. (Russian) **88i:53022**

- Kozhukharova, Rumyana T. A class of surfaces in the generalized biaxial space $P_4^{1,2}$. (Bulgarian. English summary) **88a:53008**
(with Mekerov, Dimit'r G.) Construction of a frame that is invariantly connected with a curve in a generalized biaxial space. (Bulgarian. English summary) **88b:53012**
Basic formulas of the differential geometry of surfaces in the generalized biaxial space $P_4^{1,2}$. (Russian) **88c:53015**
See also Mekerov, Dimit'r G., **88f:53020**
- Kruglyakov, L. Z. (with Mizin, A. G.) Admissible complexes of codimension two of multidimensional planes of a projective space. (Russian) **88a:53009**
- Lazareva, V. B. On adjoining homographs of the point correspondence of three lines. (Russian) (See **88c:53001**)
- On the geometry of an n -axial space. (Russian) **88i:53023**
- Makakha, A. N. The group of automorphisms of a linear complex of planes of type A_3 and the singular lines of this complex. (Russian) **88a:53010**
- Marcus, Froim Sur les surfaces à groupes continus G_2 de similitudes projectives en elles-mêmes et sur les surfaces complexes. [Surfaces with continuous groups G_2 of projective similitudes into themselves and complex surfaces] **88a:53016**
See also Eryatar, A., **88b:53011**
- Mekerov, Dimit'r G. (with Kozhukharova, Rumyana T.) On a classification of curves in a four-dimensional generalized biaxial space. (Russian) **88f:53020**
See also Kozhukharova, Rumyana T., **88b:53012**
- Mizin, A. G. See Kruglyakov, L. Z., **88a:53009**
- Mochernyuk, N. T. Cubical surfaces and congruences. (Russian) **88i:53024**
- Nöbeling, Georg Über einen Satz von Möbius-Hjelmslev. [On a theorem of Möbius and Hjelmslev] **88i:53025**
- Onishchuk, N. M. (with Ryabchevskaya, V. M.) Manifolds m_5 of pairs of points on a projective space and some distributions on them. (Russian) (See **88j:53001**)
- Pavlyuchenko, Yu. V. Examples of point relations with coincident characteristic configurations. II. (Russian) (See **88c:53001**)
- Examples of point relations with coincident characteristic configurations. III. (Russian) **88j:53018**
- Ryabchevskaya, V. M. See Onishchuk, N. M., **(88j:53001)**
- Sheidurova, N. M. A field of hyperplanes associated with an $M(\Lambda)$ -distribution of a projective space. (Russian) **88i:53026**
- Skrydlova, E. V. Degenerate congruences generated by a straight line and a plane. (Russian) **88i:53022**
- Su, Bu Qing ★ Sheying gong'e wang gailun. (Chinese) [Introduction to projective conjugate nets] **88a:53011**
- Tsapeko, V. P. Congruences formed by a quadric and a point. (Russian) **88k:53023**

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- Bronshtein, R. F. A distribution in conformal space defined by a bundle of zero-systems of a projective space. (Russian) **88i:53030**
- Gerbosommer, L. E. Classification and structure of complexes K_{n-3} of lines in P_n . (Russian) (See **88j:53001**)
- Goldstein, Norman The geometry of surfaces in the 4-quadric. **88c:14058**
- Kruglyakov, L. Z. Complexes K_2 of multidimensional planes in a projective space. (Russian) (See **88j:53001**)
- (with Mizin, A. G.) Classification and structure of hypercomplexes of multidimensional planes. (See **88j:53001**)
- (with Sereda, A. V.) Some plane surfaces. (Russian) (See **88j:53001**)
- Mizin, A. G. Classification of the complexes K_1 of the two-dimensional planes of a five-dimensional projective space. (Russian) (See **88j:53001**)
- See also Kruglyakov, L. Z., **(88j:53001)**
- Myagkov, V. I. An integral-free representation of a complex with a fourfold inflection center at infinity. (Russian) **88k:53024**
- Nagano, Tadashi (with Ochiai, Takushiro) On compact Riemannian manifolds admitting essential projective transformations. **88c:53060**
- Ochiai, Takushiro See Nagano, Tadashi, **88c:53060**
- Sasaki, Shigao ★ Bibun kikagaku. Kyokumen ron. I, II. (Japanese) [Differential geometry. Theory of surfaces. I, II] **88c:53008**
- Sereda, A. V. Laplace transforms of a surface of type σ . (Russian) (See **88j:53001**)
- See also Kruglyakov, L. Z., **(88j:53001)**
- Shelekhov, A. M. See Utkin, A. A., **88i:53047**
- Shifrin, Theodore The oscillatory behavior of surfaces in P^3 . **88h:14041**
- Utkin, A. A. On the existence of a Darboux coordinate three-web on a smooth surface in the space N^3 . (Russian) **88i:53046**
(with Shelekhov, A. M.) On the geometry of a smooth surface of the space N^3 . (Russian) **88i:53047**
- Voskanyan, V. K. A curvilinear $(n+1)$ -web on a hypersurface of the projective space P^{n+1} . (Russian) **88i:53049**

53A25 Differential line geometry

- Abdel-Ail, N. H. See Soliman, M. A., **88c:53017**
- Apresyan, Yu. A. Three-parameter families of diffeomorphisms of a line to a line containing two linear complexes of one-parameter subfamilies of special type. (Russian) (See **88c:53001**)
- Beněš, Jakub Affine deformations of congruences imbedded in n -dimensional affine spaces of dimension $n \geq 3$. (Czech. English and Russian summaries) **88i:53027**
(with Valíková, Olga) Point deformation of congruences in affine spaces of dimension n . (Czech. English and Russian summaries) **88i:53028**
- Dushina, N. V. Application of quasi-elliptic geometry for the study of line complexes of a Euclidean 3-space. (Russian) **88j:53019**
- Gerbosommer, L. E. Classification and structure of complexes K_{n-3} of lines in P_n . (Russian) (See **88j:53001**)
- Kaizer, V. V. See Kirchatykh, L. L., **(88j:53001)**
- Kirchatykh, L. L. (with Kaizer, V. V.) On the metric theory of special nonholonomic complexes. (Russian) (See **88j:53001**)

- Kondrashenkov, V. A. The geometry of two independent curvilinear complexes. (Russian) **88m:53028**
- Kruglyakov, L. Z. Complexes K_2 of multidimensional planes in a projective space. (Russian) (See **88j:53001**)
- (with Mizin, A. G.) Classification and structure of hypercomplexes of multidimensional planes. (See **88j:53001**)
- Mizin, A. G. Classification of the complexes K_1 of the two-dimensional planes of a five-dimensional projective space. (Russian) (See **88j:53001**)
- See also Kruglyakov, L. Z., **(88j:53001)**
- Myagkov, V. I. An integral-free representation of a complex with a fourfold inflection center at infinity. (Russian) **88k:53024**
- Papantoniou, B. I. Special categories of rectilinear congruences. **88b:53013**
Special categories of rectilinear congruences. **88k:53025**
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- Ryazanova, L. A. Geometry of the 3-family of lines in Sp_3 . (Russian) **88m:53029**
- Rybin, V. M. Ruled congruences in a three-dimensional quasibiflag space. (Russian) **88i:53021**
- Savos'kina, I. I. Congruences of elliptic lines of the quasi-elliptic space S_n^1 . (Russian) **88k:53026**
- Shcherbak, E. A. On congruences of pairs of figures generated by a conic and a point in A_3 . (Russian) **88h:53015**
- Shirokov, A. P. The Laguerre group and its analogues in relative ruled geometry of a plane. (Russian) **88f:53022**
- Shmeleva, S. V. Congruences of ruled quadrics with a four-fold focal surface. (Russian) **88b:53016**
- Soliman, M. A. (with Abdel-Ail, N. H.) A new kind of three-orthogonal system of line complexes immersed in the Euclidean space E^3 . **88c:53017**
- Tsagas, Gr. (with Papantoniou, B. I.) Special class of rectilinear congruences. **88i:53029**
- Valíková, Olga See Beněš, Jakub, **88i:53028**
- Xenos, Ph. J. On the rectilinear congruences establishing a conformal representation. **88b:53014**

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- Abdurakhmanova, Kh. K. Double and dual structures in a manifold of lines of the quasihyperbolic space ${}^{11}S_1$. (Russian) **88c:53018**
- Aumann, Günter Eine Klassifikation der tangentialflächen Regelflächen. [A classification of tangential ruled surfaces] **88g:53011**
- Baranova, V. A. Families of lines connected with the surface of an elliptic space. (Russian) **88b:53017**
- Keles, S. (with Kuruoğlu, N.) On the properties of $(k+1)$ -dimensional ruled surfaces in the Euclidean n -space E^n . **88d:53004**
See also Kuruoğlu, N., **88h:53009** and **88i:53011**
- Kruglyakov, L. Z. (with Mizin, A. G.) Admissible complexes of codimension two of multidimensional planes of a projective space. (Russian) **88a:53009**
- Kuruoğlu, N. (with Keles, S.) On the minimal index of the generalized minimal ruled surfaces in the Euclidean n -space E^n . (Turkish summary) **88h:53009**
(with Keles, S.) On the sectional curvatures of the generalized ruled surfaces correspond to each other under the helical motion of order k in the Euclidean space E^n . **88i:53011**
See also Keles, S., **88d:53004**
- Mizin, A. G. See Kruglyakov, L. Z., **88a:53009**
- Papantoniou, B. I. On the normal rectilinear congruences of Lorentz manifold $[R^3, (+, +, -)]$ establishing a mapping between its focal surfaces, preserving the mean curvatures. **88m:53032**
- Pottmann, Helmut Zur globalen Raumkinematik. (English summary) [On spatial kinematics in the large] **88g:53019**
- Savos'kina, I. I. Study of the ruled geometry of a quasielliptic 3-space by means of two invariant metrics. (Russian) (See **88c:53001**)
- Skrydlova, E. V. Degenerate congruences generated by a straight line and a plane. (Russian) **88i:53022**
- Yukhtina, T. I. Real 2-surface in quaternion and anti-quaternion Hermitian elliptic spaces. (Russian) **88k:53030**

53A30 Conformal differential geometry

- Bronshtein, R. F. A distribution in conformal space defined by a bundle of zero-systems of a projective space. (Russian) **88i:53030**
- Nguyen Zoon Tuan Some subclasses of three-webs of $W(P, P, Q)$ type with constant components of the fundamental tensor. (Russian) **88i:53031**

Items secondarily classified 53A30

- Angles, Pierre Construction de revêtements du groupe conforme symplectique réel $CSp(2r, R)$. géométrie conforme symplectique réelle, définition des structures spinorielles conformes symplectiques réelles. (English summary) [Construction of coverings for the real conformal symplectic group $CSp(2r, R)$, real conformal symplectic geometry, definition of real conformal symplectic spin structures] **88c:53042**
- Branson, Thomas P. Differential operators canonically associated to a conformal structure. **88a:58212**
- Goldman, William M. Projective structures with Fuchsian holonomy. **88i:57006**
- Gusevskii, N. A. (with Kapovich, M. E.) Conformal structures on three-dimensional manifolds. (Russian) **88c:57014**
- Kapovich, M. E. See Gusevskii, N. A., **88c:57014**
- Kozhanov, T. S. (with Mychelkin, E. G.) Construction of conformal theories of gravitation in terms of Weyl geometry. (Russian) **88a:83050**
- Kulkarni, Ravi S. (with Pinkall, U.) Uniformization of geometric structures with applications to conformal geometry. **88b:53036**
- Lee, John M. (with Parker, Thomas H.) The Yamabe problem. **88f:53001**
- Milnor, Tilla Klotz A conformal analog of Bernstein's theorem for timelike surfaces in Minkowski 3-space. **88b:53076**

- Mychelkin, E. G. See Kozhanov, T. S., 88a:83050
 Parker, Thomas H. See Lee, John M., 88f:53001
 Pinkall, U. See Kulkarni, Ravi S., 88b:53036
 Simon, Udo Connections and conformal structure in affine differential geometry. 88m:53023
 Valjas, M. Conformally flat hypersurfaces with three distinct principal curvatures in E_4 . (Russian. English and Estonian summaries) 88c:53011
 Isothermal submanifolds in a conformally flat space. (Russian. English and Estonian summaries) 88m:53049
 Wunsch, Volkmar Konforminvariante Differentialoperatoren. [Conformally invariant differential operators] 88a:58194
 Xenos, Ph. J. On the rectilinear congruences establishing a conformal representation. 88b:53014

53A35 Non-Euclidean differential geometry

- Abdel-All, N. H. Klein manifolds representing line manifolds in an elliptic 3-space. 88m:53030
 Abdurakhmanova, Kh. K. Double and dual structures in a manifold of lines of the quasihyperbolic space ${}^{11}S_1$. (Russian) 88c:53018
 Artemova, I. N. Congruence of horospheres in a Lobachevskii space. (Russian) 88m:53031
 Kharitonova, N. I. Quadratic and Hermitian non-Euclidean and quasi-non-Euclidean spaces over dual extensions of Galois fields. (Russian) (See 88j:53001)
 Lubenskaya, T. V. The Gauss-Bonnet theorem for the torsion-free space of hyperbolic connection \mathcal{F}_0^0 . (Russian) 88b:53015
 Mirzo-zade, D. I. The geometry of real lines and 2-surfaces in a biquaternion Hermitian elliptic space. (Russian. Tajiki summary) 88k:53027
 Papantoniou, B. I. On the normal rectilinear congruences of Lorentz manifold $[R^3, (+, +, -)]$ establishing a mapping between its focal surfaces, preserving the mean curvatures. 88m:53032
 Petko, N. D. Twistor geometry. (Russian) 88a:53012
 Shul'ga, N. V. On the geometry of focal $(n+1)$ -parameter families of the characteristic lines of the Lobachevskii space ${}^1S_{n+1}$. (Russian) (See 88c:53001)
 Sovertkov, P. I. Some theorems on curves and on surfaces in a pseudo-Euclidean space. (Russian) 88f:53023
 Some properties of isotropic curves in a pseudo-Euclidean space. (Russian) 88m:53033
 Unegova, T. A. Sufficient conditions for the existence of a homeomorphic hypersphere of a hypersurface with given mean curvature in a Lobachevskii space. (Russian) 88m:53034
 Yartukina, A. N. Some properties of surfaces of sign-constant Euler difference with an indefinite metric. (Russian) 88f:53024
 Yusupov, D. Integration of Frenet formulas. (Russian) 88b:53016

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- Boja, N. The sectional curvature of the elliptical $\mathcal{R}^n(q)$ and hyperbolic $\mathcal{H}^n(q)$ spaces. (Romanian summary) 88a:53013
 Dushina, N. V. Application of quasi-elliptic geometry for the study of line complexes of a Euclidean 3-space. (Russian) 88j:53019
 Epstein, Charles L. Univalence criteria and surfaces in hyperbolic space. 88m:30052
 Huang, Yi Zhi Bäcklund theorems for surfaces of constant curvature in the three-dimensional Minkowski space $R^{2,1}$, and higher-dimensional generalizations. (Chinese) 88b:58146
 Podraň, V. E. Two classes of hypersurfaces of an affine space admitting a nonparametric definition. (Russian) 88k:53020
 Rischel, Otto Darboux- und Bricard-Bewegungen im Flaggenraum. (English summary) [Darboux and Bricard motions in the flag space] 88d:53009
 Savos'kina, I. I. Congruences of elliptic lines of the quasi-elliptic space S_4^1 . (Russian) 88k:53026
 Slaghek, Luigi Relativistic theories of Euclidean, elliptic and hyperbolic metric spaces. (Italian. English and French summaries) 88b:53032

53A40 Other special differential geometries

- Abbasov, N. T. (with Ragimova, Z. A.) Quasi-non-Euclidean, quasisymplectic spaces over quasi-alternation and quasimatrix algebras and their interpretations. (Russian) 88f:53025
 Akivis, M. A. Smooth curves on projective planes over some associative algebras. (Russian) 88d:53028
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53B99 None of the above, but in this section

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- Dare, V. Rajkumar (with Siromoney, Rani) Subword topology. 88e:68059
- Hopcroft, J. E. (with Wilfong, G. T.) Reducing multiple object motion planning to graph searching. 88f:68045
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- Wilfong, G. T. See Hopcroft, J. E., 88f:68045

54J05 Nonstandard topology [See also 03Hxx.]

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- Lyantse, V. E. Nonstandard analysis. (Russian) 88a:03165
- Mantilla, Ignacio (with Takeuchi, Yu) Seminar on nonstandard analysis. I. Microtopology of \mathbb{R}^* . (Spanish) 88k:03136
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- Vakil, Nader Monadic binary relations and the monad systems at near-standard points. 88j:03049
- Wong, Ngai Ying A topology on \mathbb{R}^* . 88b:03105

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55-01 Elementary exposition; textbooks

- Boltyskii, V. G. (with Efremovich, V. A.) * Anschauliche kombinatorische Topologie. (German) [Visual combinatorial topology] 88b:55001
- Efremovich, V. A. See Boltyskii, V. G., 88b:55001
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- (Weese, Martin) See Boltyskii, V. G., 88b:55001

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- Brown, Kenneth S. * Когомологии групп. (Russian) [Cohomology of groups] 88c:20001
- Efremovich, V. A. See Boltyskii, V. G., 88m:57001
- Engelking, Ryszard (with Sieklucki, Karol) * Wstęp do topologii. (Polish) [Introduction to topology] 88e:54002
- (Fuks, D. B.) See Brown, Kenneth S., 88c:20001
- (Mineev, V. P.) See Boltyskii, V. G., 88m:57001 and 88m:57001
- (Novikov, S. P.) See Boltyskii, V. G., 88m:57001
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55-02 Advanced exposition (research surveys, monographs, etc.)

- Bruner, R. R. (with May, J. P.; McClure, James E.; Steinberger, Mark) * H_∞ ring spectra and their applications. 88e:55001
- Lewis, L. G., Jr. (with May, J. P.; Steinberger, Mark; McClure, James E.) * Equivariant stable homotopy theory. 88e:55002
- May, J. P. See Bruner, R. R.; et al., 88e:55001 and Lewis, L. G., Jr.; et al., 88e:55002
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- Fuks, D. B. Classical manifolds. (Russian) 88j:57002
- See also Fomenko, A. T.; et al., 88f:55001
- Goresky, R. Mark (with MacPherson, R.) Problems and bibliography on intersection homology. (See 88d:32024)
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55-04 Explicit machine computation and programs (not the theory of computation or programming)

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55M30 Lusternik-Schnirelman (Lusternik-Shnirel'man) category of a space

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- Boltysanskii, V. G. (with Efremovich, V. A.) ★ Anschauliche kombinatorische Topologie. (German) [Visual combinatorial topology] 88b:55001
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 (Weese, Martin) See Boltysanskii, V. G., 88b:55001

57-02 Advanced exposition (research surveys, monographs, etc.)

- (Casson, Andrew J.) See Recherche de la topologie perdue, 88c:57002
 Fuks, D. B. Classical manifolds. (Russian) 88j:57002
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- Progress in Mathematics ★ À la recherche de la topologie perdue. (French) [Remembrance of topology past] 88k:57002
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- Goresky, R. Mark (with MacPherson, R.) Problems and bibliography on intersection homology. (See 88d:32024)
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57-03 Historical (must also be assigned at least one classification number from Section 01)

- (Kharlamov, V. M.) See Appendix: Rohlin and his theorem (according to a letter of O. Viro and V. Kharlamov), (88k:57002)
 (Ochanine, Serge) See Rohlin, V. A., (88k:57002)
 Rohlin, V. A. Quatre articles de V. A. Rohlin. [Four articles of V. A. Rohlin] (See 88k:57002)
 (Viro, O.) See Appendix: Rohlin and his theorem (according to a letter of O. Viro and V. Kharlamov), (88k:57002)

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- Appendix:
 Rohlin and his theorem (according to a letter of O. Viro and V. Kharlamov) Appendix: Rohlin et son théorème (d'après une lettre de O. Viro et V. Kharlamov). [Appendix: Rohlin and his theorem (according to a letter of O. Viro and V. Kharlamov)] (See 88k:57002)

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- Aleksandrov, P. S. (with Ma'tsev, Arkadii Anatolievich) Some aspects of the development of topology at the Steklov Mathematical Institute of the Academy of Sciences of the USSR. (Russian) 88h:01032
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 Guillou, Lucien (with Marin, Alexis) Commentaires sur les quatre articles précédents de V. A. Rohlin. [Remarks on the four preceding articles of V. A. Rohlin] (See 88k:57002)
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 ★ Jakob Nielsen: collected mathematical papers. Vol. 2. 88a:01070b
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57-04 Explicit machine computation and programs (not the theory of computation or programming)

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57-06 Proceedings, conferences, etc.

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- Analytical and geometric aspects of hyperbolic space ★ Analytical and geometric aspects of hyperbolic space. 88c:57003

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- Birth of Lefschetz, Solomon ★ The Lefschetz centennial conference. Part II. 88b:57001

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- Algebraic geometry, algebraic topology and differential equations ★ The Lefschetz centennial conference. Part II. 88b:57001

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Topology of manifolds ★ Topology of manifolds. (Japanese) 88j:57005

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- (Gersten, S. M.) See Combinatorial group theory and topology, 88c:20005 and Essays in group theory, 88c:20004
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- Dotti Miatello, Isabel (with Miatello, Roberto J.) Transitive isometry groups with noncompact isotropy. **88m:53092**
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- Edmonds, Allan L. Construction of group actions on four-manifolds. **88d:57013**
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- Davis, Michael Walter Regular convex cell complexes. **88e:52007**
- Fisher, Robert J., Jr. On the Picard group of a compact complex nilmanifold. II. **88g:32051**

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- Seade, José (with Steer, Brian) A note on the eta function for quotients of $PSL_2(\mathbb{R})$ by co-compact Fuchsian groups. **88d:58131**
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- Torres Lopera, Juan Francisco The cohomology and geometry of Heisenberg-Reiter nilmanifolds. **88e:22009**

57S99 None of the above, but in this section

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- Fadell, E. Cohomological methods in nonfree G -spaces with applications to general Borsuk-Ulam theorems and critical point theorems for invariant functionals. **88m:57054**
- Feshbach, Mark The Segal conjecture for compact Lie groups. **88f:57075**
- Greenlees, J. P. C. Representing Tate cohomology of G -spaces. **88m:57055**
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- Allday, Christopher (with Puppe, Volker) Bounds on the torus rank. **88d:55010**
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57T05 Hopf algebras [See also 16A24.]

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- Kadeishvili, T. V. The category of differential coalgebras and the category of $A(\infty)$ -algebras. (Russian. English summary) **88f:57078**
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- Lin, James P. The mod 2 cohomology of the exceptional groups. **88g:57046**

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- Rummler, Hansklau Einige Bemerkungen über die polare Zerlegung einer regulären Matrix und die Geometrie der orthogonalen Gruppe. [Some remarks on the polar decomposition of a regular matrix and the geometry of the orthogonal group] **88d:53060**
- Yagita, Nobuaki On the image $\rho(BP^*(X) \rightarrow H^*(X; Z_p))$. **88j:55005**

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- Mkhitarian, V. G. Some homogeneous spaces of singular Lie groups. (Russian) **88h:57039**

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- Korbaš, Julius Some partial formulae for Stiefel-Whitney classes of Grassmannians. **88b:57031a**
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- Kostant, Bertram (with Kumar, Shrawan) T -equivariant K -theory of generalized flag varieties. **88m:22048**

- Kumar, Shrawan See Kostant, Bertram, 88m:22048
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 Singhof, W. (with Wemmer, D.) Erratum: "Parallelizability of homogeneous spaces. II" [Math. Ann. 274 (1986), no. 1, 157-176; MR 87e:53082]. 88a:53046
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57T20 Homotopy groups of topological groups and homogeneous spaces

- Furukawa, Yasukuni Homotopy-normality of Lie groups. II. 88m:57056

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- Becker, Brigitte (with Bruhn, Gerhard) Eine einfache Konstruktion der Homotopien der Gruppe $C(S^1, GL(n, \mathbb{C}))$. (English summary) [A simple construction of the homotopies of the group $C(S^1, GL(n, \mathbb{C}))$] 88b:55015
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- McCleary, John On the mod p Betti numbers of loop spaces. 88i:57018

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57T30 Bar and cobar constructions [See also 18G55, 55Uxx.]

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 Meyer, Jean-Pierre Bar constructions and Grothendieck constructions. 88g:55036
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- Lambe, Larry A. Cohomology of principal G -bundles over a torus when $H^*(BG; R)$ is polynomial. 88k:57051

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- Mitchell, Stephen A. (with Stong, R. E.) An adjoint representation for polynomial algebras. 88b:55020
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- Cohen, F. R. Homology of mapping class groups for surfaces of low genus. 88j:57046

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- Jang, Chang Lim On analytic group structures in S^n . (Korean summary) 88j:22007
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58-XX Global analysis, analysis on manifolds [See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49F20, 49F22.]

58-01 Elementary exposition; textbooks

- Crampin, M. (with Pirani, F. A. E.) ★ Applicable differential geometry. 88i:58001
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- Aubin, Jean-Pierre ★ Exercices d'analyse non linéaire. (French) [Exercises in nonlinear analysis] 88m:00011
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58-02 Advanced exposition (research surveys, monographs, etc.)

- Yau, Shing-Tung Nonlinear analysis in geometry. 88g:58003

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- (Farkas, M.) See Proceedings: Conference on Nonlinear Oscillations, 88k:34002
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 A survey on the interaction between mathematical physics and geometry. 88f:00028
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Unauthorized items

- Budapest ★ Proceedings of the Eleventh International Conference on Nonlinear Oscillations. 88k:34002

Conference:

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58-03 Historical (must also be assigned at least one classification number from Section 01)

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(Aleksandrov, P. S.) See Petrovskii, I. G., 88m:01108

Ekeland, I. The calculus of variations: from minimization problems to critical point theory. 88g:01030

(Lie, Sophus) See Surkov, Yu. P., 88h:01030

(Oleinik, O. A.) See Petrovskii, I. G., 88m:01108

Petrovskii, I. G. ★ Избранные труды. (Russian) [Selected works] 88m:01108

(Poincaré, Henri) See Surkov, Yu. P., 88h:01030

Shiraishi, Kenichi On the development of dynamical systems. (Japanese) 88j:01004

Surkov, Yu. P. Sophus Lie and the integral invariants of Poincaré. (Russian) 88h:01030

Virgin, V. P. Between mechanics and mathematics: analytical mechanics as a factor in the development of mathematics (the nineteenth century). (Russian) 88i:01058

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58-04 Explicit machine computation and programs (not the theory of computation or programming)

Hazewinkel, Michiel Experimental mathematics. 88m:58001

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Ito, Masaki A REDUCE program for finding symmetries of nonlinear evolution equations with uniform rank. 88a:58002

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Schröfer, Eberhard (with Hehl, Friedrich W.; McCrea, J. Dermott) Exterior calculus on the computer: the REDUCE-package EXCALC applied to general relativity and to the Poincaré gauge theory. 88b:58001

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Kaneko, Kunihiro (with Konishi, Tetsuro) Transition, ergodicity and Lyapunov spectra of Hamiltonian dynamical systems. 88i:58092

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Kersten, P. H. M. ★ Infinitesimal symmetries: a computational approach. 88f:58164

Koçak, Hüseyin (with Bisshopp, Frederic; Banchoff, Thomas; Laidlaw, David) Topology and mechanics with computer graphics. Linear Hamiltonian systems in four dimensions. 88a:58069

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Kornay, V. V. (with Fedorova, R. N.) ★ REDUCE-программа для вычисления определяющих уравнений симметрии Ли-Беклунда дифференциальных уравнений. (Russian) [A REDUCE program for the calculation of defining equations of Lie-Bäcklund symmetries of differential equations] 88d:58140

Kubíček, M. (with Holodniok, M.) Nonlinear dynamics systems—bifurcations, continuation methods, periodic solutions. 88d:58081

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Laidlaw, David See Koçak, Hüseyin; et al., 88a:58069

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Richter, Peter H. See Peitgen, H.-O., 88e:00019

Rossette, B. Détermination des exposants de Floquet-Liapounov de l'équation de Hill d'ordre n , applications. (English summary) [Determination of the Floquet-Lyapunov exponents of the n -th-order Hill equation; applications] 88j:34054

Sano, Masaki See Sato, Shinichi; et al., 88g:58122

Sato, Shinichi (with Sano, Masaki; Sawada, Yasuji) Practical methods of measuring the generalized dimension and the largest Lyapunov exponent in high-dimensional chaotic systems. 88g:58122

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Schwarz, Fritz Franz Symmetries and involution systems: some experiments in computer algebra. 88h:58058

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- Kamran, N. (with Lamb, K. G.; Shadwick, William) The local equivalence problem for $d^2y/dx^2 = F(x, y, dy/dx)$ and the Painlevé transcendents. **88f:58004**
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- Shadwick, William. See Kamran, N.; et al., **88f:58004** and **88k:58003**
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- Zryagla, M. Ya. Letter to the editor: "Classification of Bäcklund transforms of second-order partial differential equations" [Mat. Zametki **29** (1981), no. 6, 829-842; MR **82j:58003**]. (Russian) **88c:58005**

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- Betounes, David. Differential geometric aspects of the Cartan form: symmetry theory. **88i:58036**
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- Hoenselaers, C. More prolongation structures. **88e:58111**
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- Arnoldova, Ekaterina Ya. Pfaff's systems method for the local nonexistence of almost holomorphic functions. **88g:58006**
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 Kobayashi, Yuji (with Nagamachi, Shigeaki) Generalized complex superspace—involutions of superfields. **88g:58026**
 See also Nagamachi, Shigeaki. **88m:58023**
 Nagamachi, Shigeaki (with Kobayashi, Yuji) Usage of infinite-dimensional nuclear algebras in superanalysis. **88m:58023**
 See also Kobayashi, Yuji. **88g:58026**
 Rothstein, Mitchell J. Integration on noncompact supermanifolds. **88h:58022**

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- Bouquiaux, L. (with Dauby, P.; Hussin, V.) Superspace formulation of $N = 2$ pseudomechanics and superpotentials. **88h:81056**
 Cohn, J. D. $N = 2$ super-Riemann surfaces. **88e:81119**
 Dauby, P. See Bouquiaux, L.; et al. **88h:81056**
 Freund, Peter G. O. ★ Introduction to supersymmetry. **88g:81143**

- Gelfand, I. M. (with Minakshin, V. V.; Shander, V. N.) Integration in supermanifolds and the Radon supertransform. (Russian) **88d:58010**
 Haba, Z. Stochastic description of supersymmetric fields with values in a manifold. **88c:81084**
 Hussin, V. See Bouquiaux, L.; et al. **88h:81056**
 Inoue, Atsushi (with Maeda, Yoshiaki) Super oscillatory integrals and a path-integral for a nonrelativistic spinning particle. **88m:81046**
 Kastler, Daniel $\mathbb{Z}/2$ -graded cyclic cohomology within the differential envelope. **88d:58006**
 Maeda, Yoshiaki See Inoue, Atsushi. **88m:81046**
 Minakshin, V. V. See Gelfand, I. M.; et al. **88d:58010**
 Regge, Tullio The group manifold approach to unified gravity. (See **88a:83003**)
 Rogers, Alice Supersymmetric path integration. **88j:58014**
 Shander, V. N. See Gelfand, I. M.; et al. **88d:58010**
 Voronov, F. F. (with Zorich, A. V.) Complex of forms on a supermanifold. (Russian) **88h:58009**
 Zorich, A. V. See Voronov, F. F. **88h:58009**

58C99 None of the above, but in this section

- Sylvester, John Correction to: "On the differentiability of $O(n)$ invariant functions of symmetric matrices" [Duke Math. J. 52 (1985), no. 2, 475–483; MR 86j:58018]. **88a:58031**

Items secondarily classified 58C99

- Balanov, Z. I. (with Vinnichenko, S. V.) On a problem of calculating the rotation of an equivariant field. (Russian) **88m:47087**
 Bourgain, J. (with Milman, Vitali D.; Wolfson, H.) On type of metric spaces. **88h:46033**
 Milman, Vitali D. See Bourgain, J.; et al. **88h:46033**
 Sato, Toshiro Topological solitons in gauged nonlinear σ models. **88e:81074**
 Vinnichenko, S. V. See Balanov, Z. I. **88m:47087**
 Wolfson, H. See Bourgain, J.; et al. **88h:46033**

58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57Q05.]

- Baranov, Yu. S. A two-point end problem for the equations of a viscous incompressible fluid. (Russian) **88h:58023**
 Cathelineau, J.-L. Produits semi-directs acycliques. [Acyclic semidirect products] **88c:58011**
 Ghys, Étienne Groupes d'homéomorphismes du cercle et cohomologie bornée. (English summary) [Homeomorphism groups of the circle and bounded cohomology] **88m:58024**
 Killingback, T. P. Topological sectors in superstring theory. **88f:58015**
 Matsumoto, Shigenori Some remarks on foliated S^1 bundles. **88h:58016**

Items secondarily classified 58D05

- Baranov, Yu. S. (with Gliklikh, Yu. E.) A nonintegrable distribution on an infinite-dimensional manifold of diffeomorphisms. (Russian) **88j:58005**
 Baulieu, Laurent Noncommutative diffeomorphisms. **88j:17018**
 (with Henneaux, Marc) p -forms and diffeomorphisms: Hamiltonian formulation. **88i:53110**
 Baxendale, Peter H. Asymptotic behaviour of stochastic flows of diffeomorphisms. **88c:60031**
 (with Harris, T. E.) Isotropic stochastic flows. **88c:60030**
 Dąbrowski, L. (with Percacci, R.) Spinors and diffeomorphisms. **88d:81054**
 Gliklikh, Yu. E. See Baranov, Yu. S. **88j:58005**
 Goldin, Gerald A. (with Menikoff, Ralph; Sharp, David H.) Diffeomorphism groups, coadjoint orbits, and the quantization of classical fluids. (See **88h:58003**)
 (with Menikoff, Ralph; Sharp, David H.) Quantized vortex filaments in incompressible fluids. (See **88h:58003**)
 (with Menikoff, Ralph; Sharp, David H.) Diffeomorphism groups and quantized vortex filaments. **88h:81248**
 Golenishcheva-Kutuzova, M. I. See Kirillov, A. A. **88e:58035**
 Habegger, Nathan (with Szczarba, Robert H.) On the homotopy type of $\text{Diff}(\Sigma^n)$. **88i:57010**
 Harris, T. E. Isotropic stochastic flows and a related property of nonrandom potential flows. **88c:60032**
 See also Baxendale, Peter H. **88c:60030**
 Henneaux, Marc See Baulieu, Laurent. **88i:53110**
 Isham, C. J. (with Kuchař, Karel) Representations of spacetime diffeomorphisms. I. Canonical parametrized field theories. **88e:83012a**
 (with Kuchař, Karel) Representations of spacetime diffeomorphisms. II. Canonical geometrodynamics. **88e:83012b**
 Kac, Victor G. (with Raina, A. K.) Representations of $\text{Diff}_0 S^1$, exceptional Lie algebras and statistical mechanics. **88i:22045**
 Karube, Takashi Bundle properties of homeomorphism groups transitive on coset spaces. **88d:57025**
 Kirillov, A. A. (with Golenishcheva-Kutuzova, M. I.) The geometry of moments for groups of diffeomorphisms. (Russian. English summary) **88e:58035**
 (with Yur'ev, D. V.) Kähler geometry of the infinite-dimensional homogeneous manifold $M = \text{Diff}_0(S^1)/\text{Rot}(S^1)$. (Russian) **88a:58017**
 Kuchař, Karel See Isham, C. J. **88e:83012a** and **88e:83012b**
 Le Jan, Y. Équilibre statistique pour les produits de difféomorphismes aléatoires indépendants. (English summary) [Statistical equilibrium for products of independent random diffeomorphisms] **88j:58139**

- Lord, Eric A. Gauge theory of a group of diffeomorphisms. II. The conformal and de Sitter groups. 88b:81115
- Marion, Jean Dirichlet forms defined by Riemannian flags and applications. 88b:22023
- Matsumoto, Hiroyuki Convergence of driven flows of diffeomorphisms. 88b:60137
- Meinkoff, Ralph See Goldin, Gerald A.; et al., 88b:81248; (88b:58003) and (88b:58003)
- Neretin, Yu. A. Almost invariant structures and constructions of unitary representations of the group of diffeomorphisms of the circle. (Russian) 88j:22016
- Percacci, R. See Dąbrowski, L., 88d:81054
- Raina, A. K. See Kac, Victor G., 88i:22045
- Sharp, David H. See Goldin, Gerald A.; et al., 88b:81248; (88b:58003) and (88b:58003)
- Szczarba, Robert H. See Habegger, Nathan, 88i:57010
- Tsuboi, Takashi On the homology of classifying spaces for foliated products. 88f:57053
- Yur'ev, D. V. See Kirillov, A. A., 88a:58017

58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47Dxx, 47H20.]

Items secondarily classified 58D07

- Amann, Herbert Semigroups and nonlinear evolution equations. 88b:35103
- Babin, A. V. (with Vishik, M. I.) Unstable invariant sets of semigroups of nonlinear operators and their perturbations. (Russian) 88b:47091
- Fischer, Arthur E. The internal symmetry group of a connection on a principal fiber bundle with applications to gauge field theories. 88m:53062
- Martin, Robert H., Jr. Applications of semigroup theory to reaction-diffusion systems. 88i:35086
- Vishik, M. I. See Babin, A. V., 88b:47091

58D10 Spaces of imbeddings and immersions

- Cheung, Wing Sum C^∞ -invariants on loop spaces. 88i:58023
- Szabó, László Quantum fluctuations of topology of space-like hypersurfaces. 88a:58032

Items secondarily classified 58D10

- Griffiths, Phillip (with Jensen, Gary R.) ★ Differential systems and isometric embeddings. 88i:53041
- Jensen, Gary R. See Griffiths, Phillip, 88i:53041
- Joris, H. (with Preissmann, E.) Pseudo-immersions. (English summary) 88e:57028
- Kuchar, Karel Canonical geometrodynamics and general covariance. 88b:83066
- Preissmann, E. See Joris, H., 88e:57028
- Vojinec, M. Space-time compactification induced by nonlinear sigma models, gauge fields and submersions. 88e:83076
- White, Brian Cabell Curvature estimates and compactness theorems in 3-manifolds for surfaces that are stationary for parametric elliptic functionals. 88g:58037

Unauthored items

- Annals of Mathematics Studies See Griffiths, Phillip, 88i:53041

58D15 Manifolds of mappings [See also 54C35.]

- Apanasov, B. N. Deformations of hyperbolic structures without the completeness condition. (German and Russian summaries) 88b:58024
- Killingback, T. P. (with Rees, E. G.) Topology of gauge theories on compact 4-manifolds. 88b:58025
- Koiso, Norihito Yang-Mills connections and moduli space. 88g:58027
- Kondracki, Witold (with Sadowski, Paweł) Geometric structure on the orbit space of gauge connections. 88g:58028
- Mostow, Mark Alan On division of functions, solution of matrix equations, and problems in differential geometry and physics. 88m:58025
- Rees, E. G. See Killingback, T. P., 88b:58025
- Sadowski, Paweł See Kondracki, Witold, 88g:58028

Items secondarily classified 58D15

- Basmanov, V. N. (with Savchenko, A. G.) Hilbert space as the space of retractions of a segment. (Russian) 88i:54011
- Horowitz, Gary T. (with Witt, Donald M.) Toward a string field theory independent of spacetime topology. 88m:81108
- Itoh, Mitsuhiko Quaternion structure on the moduli space of Yang-Mills connections. 88b:58031
- Kirwan, Frances On spaces of maps from Riemann surfaces to Grassmannians and applications to the cohomology of moduli of vector bundles. 88b:14014
- Klainerman, S. Remarks on the global Sobolev inequalities in the Minkowski space \mathbb{R}^{n+1} . 88a:46035
- Lott, John Supersymmetric path integrals. 88m:81140
- Manton, N. S. Geometry of skyrmions. 88m:58037
- Pitkänen, Matti Quantum topological geometrodynamics. 88j:83078
- Plazhnikov, A. I. A topological criterion for the unattainability of global minima of an energy functional. (Russian) 88g:58043
- Pressley, Andrew (with Segal, Graeme) ★ Loop groups. 88i:22049
- Savchenko, A. G. See Basmanov, V. N., 88i:54011
- Segal, Graeme See Pressley, Andrew, 88i:22049
- Triebel, Hans Spaces of Besov-Hardy-Sobolev type on complete Riemannian manifolds. 88d:46057
- Function spaces on Lie groups, the Riemannian approach. 88d:46058
- Characterizations of function spaces on a complete Riemannian manifold with bounded geometry. 88d:46059
- Witt, Donald M. See Horowitz, Gary T., 88m:81108

58D17 Manifolds of metrics (esp. Riemannian)

- d'Inverno, R. A. See Swift, S. T.; et al., 88i:58024
- Swift, S. T. (with d'Inverno, R. A.; Vickers, J. A. G.) Everywhere invariant spaces of metrics and isometries. 88i:58024
- Vickers, J. A. G. See Swift, S. T.; et al., 88i:58024

Items secondarily classified 58D17

- Besse, Arthur L. ★ Einstein manifolds. 88f:53087
- D'Hoker, Eric (with Phong, D. H.) Multiloop amplitudes for the bosonic Polyakov string. 88d:81053
- Isenberg, James Steering the universe. 88g:83004
- Kim, Hong-Jong Moduli of Hermite-Einstein vector bundles. 88j:32025
- Kim, Young Wook Semicontinuity of compact group actions on compact differentiable manifolds. 88m:57046
- Kobayashi, Shoshichi Submersions of CR submanifolds. 88d:32032
- Lott, John Renormalization group flow for general σ -models. 88k:81141
- Mabuchi, Toshiki Some symplectic geometry on compact Kähler manifolds. I. 88m:53126
- Phong, D. H. See D'Hoker, Eric, 88d:81053
- Rawnsley, J. H. Twistor methods. 88j:53046
- Tromba, A. J. On a natural algebraic affine connection on the space of almost complex structures and the curvature of Teichmüller space with respect to its Weil-Petersson metric. 88c:32034

58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx.]

- Klauder, John R. Measure and support in functional integration. 88i:58025

Items secondarily classified 58D20

- Andersson, Lars Åke Prequantization of infinite-dimensional dynamical systems. 88i:58017
- Chang, Kun Soo (with Johnson, Gerald W.; Skoug, D. L.) The Feynman integral of quadratic potentials depending on two time variables. 88c:28012
- Daletskii, Yu. L. Smooth measures on infinite-dimensional manifolds and forward Kolmogorov equation. 88i:58163
- Jaskólski, Z. The geometrical interpretation of the Faddeev-Popov determinant in Polyakov's theory of random surfaces. 88a:81054
- Johnson, Gerald W. See Chang, Kun Soo; et al., 88c:28012
- Keilhauer, Guillermo On the space of Riemannian horospheres. 88a:53034
- Li, Yü Chia Sharp inequalities and regularity of heat semigroup on infinite-dimensional spaces. 88f:28011
- Norin, N. V. Stochastic integrals and differentiable measures. (Russian) 88i:28025
- Pickrell, Doug Measures on infinite-dimensional Grassmann manifolds. 88d:58017
- Skoug, D. L. See Chang, Kun Soo; et al., 88c:28012

58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15.]

- Andersson, Lars Åke Prequantization of infinite-dimensional dynamical systems. 88i:58017
- Asorey, M. (with Mitter, P. K.) Cohomology of the Yang-Mills gauge orbit space and dimensional reduction. (French summary) 88b:58021
- Bates, Peter W. (with Jones, Christopher K. R. T.) Invariant manifold theorems with applications. 88a:58033
- Carverhill, Andrew A nonrandom Lyapunov spectrum for nonlinear stochastic dynamical systems. 88f:58016
- Ebin, David G. The equations of motion of a perfect fluid with free boundary are not well posed. 88g:58029
- Jeune, Albert Solutions de l'équation de Ricci sur une variété euclidienne à l'infini. (English summary) [Solutions to the Ricci equation on a manifold that is Euclidean at infinity] 88i:58026
- Jones, Christopher K. R. T. See Bates, Peter W., 88a:58033
- Mitter, P. K. See Asorey, M., 88b:58021

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- Abarbanel, H. D. I. (with Holm, D. D.; Marsden, J. E.; Ratiu, T. S.) Nonlinear stability analysis of stratified fluid equilibria. 88d:76029
- (Barbu, Viorel) See Moroşanu, Gheorghe, 88g:47129
- Baxendale, Peter H. Asymptotic behaviour of stochastic flows of diffeomorphisms: two case studies. 88c:58073
- Belopolskaya, Ya. I. (with Daletskii, Yu. L.) Stochastic equations and differential geometry. (Russian) 88f:58158
- (with Daletskii, Yu. L.) Stochastic equations and differential geometry [Analysis on manifolds and differential equations] (Russian), 3–24, Voronezh. Gos. Univ., Voronezh, 1986. (See 88b:58003)
- Biler, Piotr Invariant sets of solutions of Navier-Stokes and related evolution equations: a survey. (French summary) 88f:58095
- Blázquez, C. Miguel Bifurcation from a homoclinic orbit in parabolic differential equations. 88a:34093
- Brill, Dieter R. (with Reula, O.; Schmidt, Bernd Gerhard) Local linearization stability. 88j:83006
- Burzauff, Jürgen (with Ó Murchadha, Niall) Global existence of time-dependent Yang-Mills-Higgs monopoles. 88a:58034
- Daletskii, Yu. L. See Belopolskaya, Ya. I., 88f:58158 and (88b:58003)
- Darling, R. W. R. Constructing nonhomeomorphic stochastic flows. 88k:60119
- Ebin, David G. (with Saxton, R. A.) The equations of incompressible elasticity. 88a:73034
- Elworthy, K. D. Stochastic dynamical systems and their Lyapunov exponents. 88b:58128

- Friedrich, Helmut On the existence of n -geodesically complete or future complete solutions of Einstein's field equations with smooth asymptotic structure. **88b:83006**
- Gliklikh, Yu. E. Riemannian parallel transport, the Itô integral and stochastic equations on manifolds. (Russian) **88g:58192**
- Riemannian parallel translation, the Itô integral, and stochastic equations on manifolds [Analysis on manifolds and differential equations (Russian), 24–45, Voronezh. Gos. Univ., Voronezh, 1986]. (See **88b:58003**)
- Helm, D. D. See Abarbanel, H. D. L.; et al., **88d:76029**
- Ishmukhametov, A. Z. On the smoothness of solutions of the Cauchy problem for a second-order hyperbolic operator-differential equation. (Russian) **88h:34038**
- Itoh, Tatsuo Bifurcation and stability of periodic orbits of nonlinear evolution equations. **88m:47094**
- Kunita, H. ★ Lectures on stochastic flows and applications. **88g:60148**
- Limit theorems for stochastic differential equations and stochastic flows of diffeomorphisms. **88k:60104**
- Convergence of stochastic flows with jumps and Lévy processes in diffeomorphisms group. (French summary) **88b:60136**
- Kuo, Hui-Hsiung The heat equation and Fourier transforms of generalized Brownian functionals. **88k:60113**
- Kurbylo, I. F. Evolution equations with infinite-dimensional pseudodifferential operators. (Russian) **88m:35151**
- Marsden, J. E. (with Ratiu, T. S.) Nonlinear stability in fluids and plasmas. **88j:76021**
- See also Abarbanel, H. D. L.; et al., **88d:76029**
- Morales, Pedro Topological properties of the set of global solutions for a class of semilinear evolution equations in a Banach space. **88e:47100**
- Moroşanu, Gheorghe ★ Ecuații neliniare de evoluție și aplicații. (Romanian) [Nonlinear evolution equations and applications] **88g:47129**
- Nikol'skii, N. V. The method of Poincaré normal forms in problems of integrability of equations of evolution type. (Russian) **88k:34082**
- Ó Murchadha, Niall See Burzlaff, Jürgen, **88a:58034**
- Rafu, T. S. See Abarbanel, H. D. L.; et al., **88d:76029** and Marsden, J. E., **88j:76021**
- Reula, O. See Brill, Dieter R.; et al., **88j:83006**
- Saxton, R. A. See Ebin, David G., **88a:73034**
- Schmidt, Bernd Gerhard See Brill, Dieter R.; et al., **88j:83006**
- Segal, I. E. Induced bundles and nonlinear wave equations. **88f:58143**
- Specovius, Maria Exterior Stokes problems and decay at infinity. **88c:76026**
- Zhang, Yin Nan Differential operations on infinite-dimensional measure spaces. I. (Chinese. English summary) **88d:60158**

58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

- Albeverio, Sergio Some recent developments and applications of path integrals. **88b:58022**
- Burzlaff, Jürgen (with Ó Murchadha, Niall) Global existence of time-dependent Yang-Mills-Higgs monopoles. **88a:58034**
- Fukutaka, Hiroki (with Kashiwa, Tarō) Path integration on spheres: Hamiltonian operators from the Faddeev-Senjanovic path integral formula. **88k:58018**
- Kashiwa, Tarō See Fukutaka, Hiroki, **88k:58018**
- Ó Murchadha, Niall See Burzlaff, Jürgen, **88a:58034**
- Rogers, Alice Supersymmetric path integration. **88j:58014**
- Zastawniak, Tomasz Approximation of Feynman path integrals by integrals over finite-dimensional spaces. (Russian summary) **88f:58017**

Items secondarily classified 58D30

- Alvarez-Gaumé, L. (with Gómez, César; Reina, C.) Loop groups, Grassmannians [Grassmannians] and string theory. **88m:22047**
- Asorey, M. (with Mitter, P. K.) Cohomology of the Yang-Mills gauge orbit space and dimensional reduction. (French summary) **88b:58021**
- Baranov, Yu. S. A two-point end problem for the equations of a viscous incompressible fluid. (Russian) **88h:58023**
- (with Gliklikh, Yu. E.) A nonintegrable distribution on an infinite-dimensional manifold of diffeomorphisms. (Russian) **88j:58005**
- Bartnik, Robert The mass of an asymptotically flat manifold. **88b:58144**
- Baston, R. J. (with Mason, L. J.) Conformal gravity, the Einstein equations and spaces of complex null geodesics. **88h:83010**
- Bizon, P. (with Malec, E.) On Witten's positive-energy proof for weakly asymptotically flat spacetimes. **88e:83030c**
- Bleeker, David D. Nonperturbative conformal quantum gravity. **88h:83039**
- Böhm, Manfred (with Junker, Georg) Path integration over compact and noncompact rotation groups. **88h:81049**
- Braam, Peter Quantum field theory: the bridge between mathematics and the physical world. **88m:81102**
- Bukhbinder, I. L. (with Lyakhovich, S. L.) Canonical quantization of gravitation with higher derivatives. (Russian) **88d:83027**
- Cai, J. M. (with Cai, P. Y.; Inomata, A.) Path-integral treatment of the Hulthén potential. **88m:81045**
- Cai, P. Y. See Cai, J. M.; et al., **88m:81045**
- Carfora, M. Initial data sets, conformal geometry and the topology of physical space in general relativity. **88e:83009**
- Ceresole, A. (with Lerda, A.; Pizzochero, P.; van Nieuwenhuizen, P.) Critical dimensions for strings on group-manifolds from path-integral methods. **88i:81085**
- Chetouani, L. (with Hamann, T. F.) Intégrale de parcours d'une action bi-quadratique mnésique. (English and Italian summaries) [The path integral of a biquadratic action characterizing memory effects] **88b:81048**
- Choquet-Bruhat, Y. Kaluza-Klein theories. **88c:83074**
- (with Noutchegueme, Norbert) Système hyperbolique pour les équations d'Einstein avec sources. (English summary) [A hyperbolic system for Einstein equations with sources] **88a:83006**
- Chruciński, Piotr T. A remark on the positive-energy theorem. **88f:83030a**

Sur les coordonnées p -harmoniques en relativité générale. (English summary) [On p -harmonic coordinates in general relativity] **88k:83027**

Corrigendum: "A remark on the positive-energy theorem". **88f:83030b**

- Chung, Dong Myung (with Kang, Soon Ja) Translation theorems for Feynman integrals on abstract Wiener and Hilbert spaces. **88g:60015**
- Clarke, C. J. S. See Newman, R. P. A. C., **88m:53119**
- Crane, Louis Action of the loop group on the self-dual Yang-Mills equation. **88i:58167**
- Gagnon, René Path integrals in nonrelativistic stochastic quantum mechanics. **88k:81068**
- Gambini, Rodolfo (with Trias, Antoni) Gauge dynamics in the C -representation. **88e:81058**
- Gliklikh, Yu. E. See Baranov, Yu. S., **88j:58005**
- Gómez, César See Alvarez-Gaumé, L.; et al., **88m:22047**
- Hamann, T. F. See Chetouani, L., **88b:81048**
- Holm, D. D. Lyapunov stability of ideal compressible and incompressible fluid equilibria in three dimensions. **88a:76025**
- Ichinose, Takashi On path integral for a relativistic particle. **88j:81021**
- Inomata, A. See Cai, J. M.; et al., **88m:81045**
- Inoue, Atsushi (with Maeda, Yoshiaki) Super oscillatory integrals and a path-integral for a nonrelativistic spinning particle. **88m:81046**
- Strong and classical solutions of the Hopf equation—an example of functional derivative equation of second order. **88b:35157**
- Isenberg, James Steering the universe. **88f:83004**
- Johnson, Gerald W. (with Lapidus, Michel L.) Generalized Dyson series, generalized Feynman diagrams, the Feynman integral and Feynman's operational calculus. **88f:81034**
- Junker, Georg See Böhm, Manfred, **88h:81049**
- Kang, Soon Ja See Chung, Dong Myung, **88g:60015**
- Killingback, T. P. World-sheet anomalies and loop geometry. **88f:53120**
- Klander, John R. Wave theory of imaging systems. (See **88c:78001**)
- Lapidus, Michel L. See Johnson, Gerald W., **88f:81034**
- Lerda, A. See Ceresole, A.; et al., **88i:81085**
- Lott, John Supersymmetric path integrals. **88m:81140**
- Lyakhovich, S. L. See Bukhbinder, I. L., **88d:83027**
- Maeda, Yoshiaki See Inoue, Atsushi, **88m:81046**
- Malec, E. See Bizon, P., **88f:83030c**
- Mason, L. J. See Baston, R. J., **88h:83010**
- Masood-ul-Alam, A. K. M. The topology of asymptotically Euclidean static perfect fluid space-time. **88i:53106**
- Mil'shtein, A. I. A new method for calculation of the Green functions of the Schrödinger equation. **88f:81035**
- Mitter, P. K. See Asorey, M., **88b:58021**
- Newman, R. P. A. C. (with Clarke, C. J. S.) An R^4 spacetime with a Cauchy surface which is not R^3 . **88m:53119**
- van Nieuwenhuizen, P. See Ceresole, A.; et al., **88i:81085**
- Noutchegueme, Norbert See Choquet-Bruhat, Y., **88a:83006**
- Pizzochero, P. See Ceresole, A.; et al., **88i:81085**
- Reina, C. See Alvarez-Gaumé, L.; et al., **88m:22047**
- Segal, I. E. Global theory of nonlinear wave equations. **88a:81087**
- Shaharir, Mohammad Zain New framework for the Feynman path integral. **88k:81072**
- Shavgulidze, E. T. See Smolyanov, O. G., **88i:28026**
- Smolyanov, O. G. (with Shavgulidze, E. T.) Some properties and applications of Feynman measures in the phase space. **88i:28026**
- Sorkin, R. D. Stochastic evolution on a manifold of states. **88g:82033**
- Suárez, Rodolfo Path integrals for the relativistic case. (Spanish) **88b:81052**
- Szabó, László Quantum fluctuations of topology of space-like hypersurfaces. **88a:58032**
- Trias, Antoni See Gambini, Rodolfo, **88e:81058**
- Weisberger, William I. Normalization of the path integral measure and the coupling constants for bosonic strings. **88g:81130**

58D99 None of the above, but in this section

- Dąbrowski, L. (with Percacci, R.) Modular transformations of spin structures on surfaces with boundary. **88e:58018**
- Iglesias, P. Connexions et difféologie. (English summary) [Connections and diffeologies] **88k:58019**
- Percacci, R. See Dąbrowski, L., **88e:58018**

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- Ferreira, M. J. A twistorial characterization of conformal branched immersions with parallel mean curvature. **88e:53094**
- Fukui, T. (with Atré, M. V.) Topology of the Grassmannian σ model on a lattice. **88h:11143**
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- Goddard, P. (with Mansfield, P.) Topological structures in field theories. **88a:81003**
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- Kamber, Franz W. (with Tondeur, Philippe; Tóth, Gábor) Transversal Jacobi fields for harmonic foliations. **88f:53062**
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- Tanno, Shuichi. Instability of spheres with deformed Riemannian metrics. **88f:53082**
- Tian, Gang. On Kähler-Einstein metrics on certain Kähler manifolds with $C_1(M) > 0$. **88e:53069**
- Tondeur, Philippe (with Tóth, Gábor) On transversal infinitesimal automorphisms for harmonic foliations. **88m:53066**
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- Văleanu, M. Space-time compactification induced by nonlinear sigma models, gauge fields and submersions. **88e:83076**
- Wong, Bun. A global moduli space of ample subvarieties on compact Kähler manifolds with very strongly negative curvature. **88k:32055**
- Wu, Yue Liang (with Xie, Yan Bo; Zhou, Guang Zhao) Effective action of sigma model anomalies with external gauge fields. **88f:81092**
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- Yanagida, T. (with Yasui, Yukinori) Cancellation of anomalies in supersymmetric sigma models based on exceptional groups. **88a:81179**
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- Yasui, Yukinori. Global anomalies in nonlinear sigma models based on exceptional groups. **88d:81073**
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- Zakrzewski, W. J. Classical solutions of some CP^1 -like models. **88e:81078**
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- Zhang, Gong Qing (with Eells, James) Harmonic maps and minimal surface coboundaries. **88h:58030**
- Zhang, Li Ning. Harmonic mapping actions and nonlinear σ -model. (Italian and Russian summaries) **88g:81089**
- Zhou, Guang Zhao. See Wu, Yue Liang; et al., **88f:81092**
- Ziemer, William P. Regularity of quasiminima and obstacle problems. **88d:35083**

58E25 Applications to control theory (optimal and nonoptimal)

- Zelikin, M. I. Synthesis of optimal trajectories on spaces of representations of Lie groups. **88h:58048**

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- Bloch, Anthony M. (with Byrnes, Christopher I.) An infinite-dimensional variational problem arising in estimation theory. **88a:58035**
- Bressan, Alberto. Directional convexity and finite optimality conditions. **88f:49013**
- Brézis, Haim (with Oswald, Luc) A maximization problem involving critical Sobolev exponents. (Portuguese summary) **88h:49009**
- Byrnes, Christopher I. See Bloch, Anthony M., **88a:58035**
- Kóna, András. On the manifold of control processes in Lagrange problems. **88j:49025**
- Nesterenko, V. V. On the derivation of the formula for the Hamiltonian functional integral in theories with first and second class constraints. (Russian. English summary) **88k:81071**
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58E30 Variational principles

- Bailey, C. D. Dynamics and the calculus of variations. **88h:58038**
- Démichev, A. P. (with Nelipa, N. F.) A method for constructing gauge-invariant Lagrangians for arbitrary Lie groups. (Russian) **88m:58041**
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- Krupková, Olga. Lepagean 2-forms in higher order Hamiltonian mechanics. I. Regularity. **88i:58036**
- Mangiarotti, L. Local gauge invariant Lagrangians. **88i:58043**
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- Rosel, R. Duality under dependency inversion and Noether theory for second-order Lagrangians. **88a:58059**
- Rund, Hanno. Addendum to my paper: "Gauge transformations of type (0,2) tensor fields and associated variational principles" [Quaestiones Math. 7 (1984), no. 2, 105-140; MR 86f:58040]. **88h:58042**
- Shnirel'man, A. I. On the principle of the shortest way in the dynamics of systems with constraints [Application of topology in modern analysis (Russian), 124-137, Voronezh. Gos. Univ., Voronezh, 1985; MR 87i:49062]. (See **88b:58003**)
- Zhao, Shi Ying. The differential geometric principle of the nonholonomic mechanical systems of Chetaev's type. **88i:58044**

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- Bishop, N. T. The action of a general gauge field theory: minimum or stationary. II. **88i:81081**
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- Clarke, Frank H. Hamiltonian analysis of the generalized problem of Bolza. **88c:49016**
- Cohen, Robert Adam (with Hardt, Robert; Kinderlehrer, David; Lin, San-Yih; Luskin, Mitchell) Minimum energy configurations for liquid crystals: computational results. **88i:82055**
- Edelen, Dominic G. B. (with Snyman, I. M.) Cartan forms for multiple integral problems in the calculus of variations. **88c:49031**
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58E35 Variational inequalities (global problems)

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Dancer, E. N. On the number of positive solutions of weakly nonlinear elliptic equations when a parameter is large. **88c:35061**

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58Fxx Ordinary differential equations on manifolds; dynamical systems {For abstract and topological dynamics, see also 28D10, 34C35, 34C40, 54H20.}

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(**Giessmann, Ernst Günter**) See **Arnol'd, V. I.**, **88k:58031** and **88k:58032**

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(**Iacob, Andrei**) See **Arnol'd, V. I.**; et al., **88m:58043**

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(with **Marle, Charles-Michel**) ★ Géométrie symplectique, bases théoriques de la mécanique. Tome III. (French) [Symplectic geometry, theoretical bases of mechanics. Vol. III] **88g:58049c**

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Shiraawa, Kenichi On the development of dynamical systems. (Japanese) **88j:01004**

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58F05 Hamiltonian and Lagrangian systems; symplectic geometry [See also 70Hxx.]

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Ambrosetti, Antonio (with **Coti Zelati, Vittorio**; **Ekeland, I.**) Symmetry breaking in Hamiltonian systems. **88h:58040**

Arnol'd, V. I. Evolution of a magnetic field under the action of drift and diffusion. (Russian) **88b:58043**

(with **Givental', A. B.**) Symplectic geometry. (Russian) **88b:58044**

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Astashov, A. M. (with **Vinogradov, A. M.**) On the structure of Hamiltonian operators in field theory. **88f:58038**

Augusteijn, Marijke F. (with **Breitenberger, Ernst**) Waves, bifurcations, and solitons in a model with sixfold symmetry. **88d:58031**

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Baranger, M. (with **Davies, K. T. R.**) Periodic trajectories for a two-dimensional nonintegrable Hamiltonian. **88j:58029**

Battle, C. (with **Gomis, J.**; **Pons, J. M.**; **Roman-Roy, N.**) Equivalence between the Lagrangian and Hamiltonian formalism for constrained systems. **88a:58060**

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Baulieu, Laurent (with **Grossman, Bernard**) Constrained systems and Grassmannians. **88a:58061**

Bechliyanidis, C. (with **van Moerbeke, Pierre**) The Goryachev-Chaplygin top and the Toda lattice. **88g:58050**

Bel'kovich, A. A. On the existence of invariant tori for a periodic Hamiltonian system having some of characteristic indices with nonzero real part. (Russian) **88m:58046**

Benci, Vieri (with **Fortunato, Donato**) A "Birkhoff-Lewis" type result for a class of Hamiltonian systems. **88m:58047**

Benenti, S. (with **Tulczyjew, W. M.**) A geometrical interpretation of the 1-cocycles of a Lie group. **88b:58045**

Benettin, Giancarlo Regular and chaotic motions near resonances in quasi-integrable Hamiltonian systems. **88i:58046**

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